CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 29, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	Place.	See issue.
7-30	Wasteway,	Sunnyside, Wash..(S)	7- 1
7-31	Buildings,	Annapolis, Md....(S.)	7- 8
7-31	Improv. bldg.,	Boston.....(S.)	7- 8
7-31	*Sidewalk, etc,	Galveston, Tex. (S.)	7- 1
7-31	*Dredging,	Galveston, Tex...(S.)	7- 1
8- 2	*Generating station,	Winnipeg, Man. .....(P. & S.)	6-10
8- 3	Filters, etc.,	Chester, S. C., (P. & S.)	7-22
8- 5	*Dredging,	Galveston, Tex...(S)	7- 8
8- 7	Track,	Norfolk, Va.....(S)	7-22
8- 7	Building,	Norfolk, Va.....(S.)	7-22
8- 7	*Fire hydrants,	Washington, D. C. .....(S.)	7-22
8-14	Flushing equipment,	Boston, Mass. .....(S.)	7-29
8-14	Street paving,	Philadelphia, Pa. ..... (S.)	7-22
8-14	Hospital,	New York.....(S.)	7-22
8-21	Repairing bldg.,	Washington, D. C. .....(S.)	7-29
8-28	Store houses,	Portsmouth, N. H. .....(S.)	7-29
8-28	Power bldg.,	Vallejo, Cal. (S.)..	7-29
9- 1	*Park system,	Minneapolis, Minn. (S.)	7- 8
9-14	*Pumping engines,	Detroit, Mich. (P. and S.)	7-15

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

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8- 2 Elec. current, Prescott, Ariz..... 7-29
8- 2 Lighting, Cynthiana, Ky..... 7-15
8- 2*Generating station, Winnipeg, Man. 6-10
8- 2*Power-house, Earlham, Ia..... 7-29
8- 3 Lighting, lamps, Sewickley, Pa.. 7-29
8- 3 Lamp-posts, New York 7-29
8-14 Power-house, etc., Hudson, N. Y. 7-29
8-18 Elec. equip., Columbus, Ohio..... 7-29
8-20 Cable, Boston, Mass..... 7-29
8-28 Power bldg., Vallejo, Cal..... 7-29

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7-30 Steel girder bridge, Harrisburg, Pa 7-22
7-30 Bridge, Claytonville, Ill..... 7-29
7-30 Bridge, Cranford, N. J..... 7-29
7-30 Bridge, Bowling Green, Va..... 7-29
7-31 Bridge, macadam; Newport, Tenn 7-29
7-31*Removing bridge, Wash., D. C... 7-22
8- 1 Steel, concrete bridge, Woodford, Va..... 7-22
8- 2*Bridge work, Bangor, Me..... 7-22
8- 2 Steel bridge, Quincy, Fla..... 7-22
8- 2 Wooden bridge, Meriden, Miss.. 7-22
8- 2 Bridge, Zanesville, Ohio..... 7-15
8- 2 Bridge South Bend, Wash..... 7-29
8- 2 Concrete or steel, Baraboo, Wis.. 7-29
8- 3 Bridge, Crawfordsville, Ind..... 7-29
8- 3 Bridges, Covington, Ind..... 7-29
8- 3 Bridge, Sunbury, Pa..... 7-29
8- 3 Bridge, Toronto, Ont..... 7-22
8- 6 Reinforced concrete, Chambersburg, Pa 7-29
8- 9 Reinforcing, Allentown, Pa..... 7-29
8- 9 Bridge, Springfield, Ohio..... 7-22
8-10 Steel bridge, Griffin, Ga..... 7-29
8-11 Concrete bridge, Cleveland, O.... 7-15
8-11 Bridges, Fargo, N. Dak..... 7-29
8-12 Bridge, Akron, Ohio 7-29
8-16 Steel bridges, Lawton, Okla..... 7-29
8-16*Concrete bridge, Phoenix, Ariz.. 7-22
8-17 Bridge, Rumford, Me..... 7-22
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7-31 Improving bldg., Boston, Mass... 7- 8
7-31 Hospital bldgs., Annapolis, Md... 7- 8
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8- 2 Fire houses, New York..... 7-22
8- 3 Schools, New York 7-22
8- 3 Post-office, Council Bluffs, Ia.... 7- 1
8- 4*Post-office, Bowling Green, Ky.. 7- 1
8- 5 Post-office, Gonzales, Tex..... 7-15
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8- 5 Comfort station, etc., New York. 7-29
8- 7 Building, Norfolk, Va..... 7-22
8- 9 School, St. Paul, Minn..... 7-29
8-10 Pavilion, etc., Watkins, N. Y.... 7-29
8-12 Quarters, Ft. Morgan, Ala..... 7-22
8-14 Hospital, New York..... 7-22
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8-17 Field offices, New York..... 7-29
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8-31*Post-office, New Orleans, La..... 7-29
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8- 2 Water, sewer system, Ft. St. Philip, La..... 7-15
8- 2 Well, Clarendon, Ark..... 7-15
8- 2 Water mains, Dickinson, N. Dak. 7-29
8- 3 Canal, etc., Turlock, Cal..... 7-29
8- 3 Filters, etc., Chester, S. C..... 7-22
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8- 5*Canal, etc., Scottsbluff, Neb..... 7-22
8- 6 Aqueduct, Salt Lake City, Utah. 7-29
8- 6 Water-works, etc., Baudette, Minn 7-29
8- 7*Fire hydrants, Washington, D. C..... 7-22
8- 9*Water system, Lamar, Colo..... 7-22
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8-18*Water supply extension, Binghamton, N. Y..... 7-29
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8-13*Sewer, Louisville, Ky..... 7-29
8-17*Disposal works, Auburn, N. Y... 7-29
8-19 Sewer, Albert Lea, Minn..... 7-29
8-24*Sewers, Belmar, N. J..... 7-29
9- 1 Sewers, Rogers, Ark..... 7-29
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7-31 Sidewalks, etc., Eutaw, Ala..... 7-29
7-31 Road, Bethel, Me..... 7-29
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8- 2 Grading, etc., Hornell, N. Y.... 7-29
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8- 2 Gravel road, Danville, Ind..... 7-15
8- 2 Road, Vernon, Ind. 7-15
8- 2*Paving, Boise City, Idaho..... 7- 8
8- 2*Paving, etc., Norfolk, Va..... 7-15
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8- 3 Highway, Crawfordsville, Ind.... 7-22
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8- 3 Ditches, Hampton, Iowa..... 7-22
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8- 9*Dredging, Galveston, Tex..... 7-22
8- 9*Dredging, Oswego, N. Y..... 7-22
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8-28*Dredging, New York 7-29
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RAILWAYS.

BUFFALO FRONTIER TERMINAL RY.—The Public Service Commission, of State of New York, has granted to this company a certificate of necessity, carrying with it permission to build a freight belt line around the city of Buffalo, N. Y., from Lake Erie, at Bay View on the southwest, to the Niagara River and Tonawanda, on the northwest, a distance of 25 miles. The new terminal railway will intersect and connect with all railway lines entering Buffalo, and will construct extensive terminals, including wharves, elevators, etc., on Lake Erie near Bay View and on the Niagara River near Tonawanda. Frank S. McGraw is Pres., 614 Ellicott Square Bldg., Buffalo; George A. Ricker is Ch. Engr., 700 Ellicott Square Bldg., Buffalo.

CAROLINA, VIRGINIA & WESTERN.—Chartered in Virginia, with headquarters at Amherst, Va., to build a line about 125 miles long from Strathmore, Va., to Milton, N. C. Capital, $2,500 to $25,000. T. O. Troy is Pres., B. R. Harrison, Secy., both at Amherst. The other incorporators are A. B. Carrington, Danville, Va.; H. C. Joyner and Stickley Tucker, of Amherst, and R. A. James and W. R. Fitzgerald, of Danville.

CHICAGO & NORTHWESTERN.—HASE & WEIHER, Milwaukee, have the contract for the depression of streets at Kinnickinnic Ave., Becher St., Lincoln Ave. and Chicago Ave., in Milwaukee, where the company is elevating its tracks. The work consists of the excavation and depression of streets and the building of paving, curbs and concrete sidewalks.

DENVER, LARAMIE & NORTHWESTERN.—See Greeley Terminal R. R.

DENVER & MEMPHIS.—Company plans to build a line 325 miles long from Coffeyville, Kan., to Bald Knob, Ark., and possibly Memphis, Tenn., via Vinita and Cherokee, Okla.; Gentry, Wedington, Savoy, Fayetteville, Goshen, Hindsville, Kingston, Clinton and Heber, Ark. Engineer has not yet been appointed. J. R. Albefeld, of Siloam Springs, Ark., is promoter. Noted last week.

GRAND TRUNK PACIFIC.—Bids are being taken, it is reported, for building 140 miles of line, from Kitsalas Canyon to Aldermere, B. C. B. B. Kelliher is Ch. Engr., Winnipeg, Man.

GREELEY TERMINAL R. R.—Organized at Greeley, Colo., to secure terminals and right-of-way through Greeley for the Denver, Laramie & Northwestern R. R. The Terminal Co. is capitalized at $300,000, with office in Greeley. It proposes to build lines out of Greeley and put up terminal station. The Terminal Company will be controlled exclusively by the Denver, Laramie & Northwestern R. R. Co. The incorporators include W. L. Clayton, C. D. Todd, of Greeley; C. M. Day, C. S. Johnson, C. Felt, A. E. Welby and J. D. Milliken, all of Denver. Noted on June 10.

HOUSTON BELT & TERMINAL CO.—Company has purchased land at Houston, Tex., upon which it will build extensive storage and transfer yards and dockage and loading wharves and slips. Headquarters are in the Binz Bldg., Houston.

KANAWHA, GLEN JEAN & EASTERN.—We are officially advised that contract has been awarded on Sections 1, 2 and 3 (including tunnel) to LIPSCOMB & MORRIS, Roankoe, Va., and Sections 4, 5 and 6, to JANUTOLO, LONG & CO., Bluefield, W. Va. Victor S. Veazey is Engr. of Construction, Mt. Hope, W. Va.

LITTLE KANAWHA R. R. (Baltimore & Ohio).—The Little Kanawha R. R. Co., the Parkersburg Bridge & Terminal Co. and the Burnsville & Eastern R. R. Co., which expect to extend into the coal fields in the interior of West Virginia, at their recent annual meetings, elected the following officers: Pres., J. T. Blair, of Parkersburg; Vice-Pres., J. M. Schoonmaker, of Pittsburg; Secy. and Treas., A. H. Blair, of Parkersburg, W. Va.; Auditor, B. R. Petriken, of Parkersburg; General Counsel, Reese Blizzard, of Parkersburg. S. D. Brady, of Parkersburg, is Ch. Engr. A. L. Morgan, of Wheeling, and George M. Schriver, of Baltimore, are members of the Board of Directors in addition to the officers.

MARKED TREE, NEWPORT & WESTERN.—Contracts probably will be let about Sept. 1 for building this railway from Marked Tree, Ark., westerly via Harrisburg, Waldenburg and Weiner, about 49 miles. E. Ritter is Pres. and W. W. Cate Gen. Mgr., Marked Tree. C. B. Bailey, Wynne, Ark., is Ch. Engr. Noted on July 15.

NEW YORK CENTRAL & HUDSON RIVER.—Regarding the electrification of the company's lines and station improvements in New York and vicinity, we are officially advised that the work is going forward, the same being prosecuted by company forces. The grade elimination at Buffalo, N. Y., is under contract and the work is progressing and has been for two or more years. The electrification of the West Shore line between Syracuse and Utica has been completed, except interlocking. In regard to contract for grade revision and double-tracking the West Shore between Churchville and Buffalo, the contract has been let and the work is progressing. No decision has yet been reached in regard to new station at Watertown, N. Y. The double-tracking of the Rome, Watertown & Ogdensburg R. R. between Utica and Stittville is completed and in service; between Watertown Junction and Adams is completed except track-laying, and the grading from Richland to Lacona is completed and track-laying is in progress. Company is at work on plans for elimination of grade crossings at Hastings and Ossining, N. Y. Geo. W. Kittredge is Ch. Engr., New York.

PANAMA.—Bids for furnishing 150,000 railroad cross-ties for the Isthmian Canal Commission were received on July 23. The wood required must be either cypress, redwood, Douglas fir or long leaf yellow pine. The following were the bids received: A. S. Bacon & Sons, Savannah, Ga., 150,000 7 × 9 × 8.6 yellow pine cross-ties, price, 87 cts. each, c. i. f. Colon; G. Elias & Bro., Buffalo, N. Y., 150,000 7 × 9 × 8.6 cypress cross-ties, price, 95 cts each, c. i. f. Colon; Wm. P. Cook & Co., New York, 75,000 7 × 9 × 8.6 cypress cross-ties, price, 79½ cts. each, c. i. f. Colon; Haviland Lumber Co., New York, 75,000 7 × 9 × 8.6 yellow pine cross-ties, price, 88 cts. each, c. i. f. Colon; W. R. Grace & Co., San Francisco, Cal., No. 1, 50,000 7 × 9 × 8.6 Oregon fir cross-ties, price, 93 cts. each, c. i. f. Balboa, Pacific port; No. 2, 75,000 7 × 6 × 8.6 Oregon fir cross-ties, price, 62 cts. each, c. i. f. Balboa, Pacific port; G. S. Baxter & Co., New York, all cypress cross-ties, c. i. f. Colon, No. 1, 150,000 ties, 95 cts. each; No. 2, 150,000 ties, 92 cts. each; alternate bids, 150,000 ties, 87 cts. each; 150,000 ties, 89 cts. each. The specifications of the Isthmian Canal Commission provide for furnishing railroad cross-ties "by steamer, free of all charges, on dock at either Colon (Atlantic port), or port of Ancon (Balboa, Canal Zone, Pacific port)."

SAN LUIS SOUTHERN.—We are officially informed that this company has been incorporated in Colorado to build a standard-gage railroad from a connection with the Denver & Rio Grande R. R. at Blanca, Costilla County, Col., southerly to Questa, N. Mex., 52 miles. Franklin E. Brooks is Pres., Colorado Springs, Col.; L. D. Blauvelt, Gen. Mgr. and Ch. Engr., Blanca, Col.

TEXAS.—The Railroad Commission of Texas has issued a statement of construction work, etc., for the year ending June 30, 1909. About 376 miles of new main line were built in Texas during the year as follows: Wichita Falls & Southern Ry.: Olney to Newcastle, 12 miles. Texas State R. R.: Wewshaw to Palestine, 15 miles. Shreveport, Houston & Gulf R. R.: Huntington to Manning, 11 miles. Roscoe, Snyder & Pacific Ry.: Snyder to Fluvanna, 20 miles. Asherton & Gulf Ry.: Asherton to Light, 12 miles.

Quanah, Acme & Pacific Ry.: Acme to Sands, 5 miles. Abilene & Southern Ry.: Abilene to Bradshaw, 27 miles. Groveton, Lufkin & Northern R. R.: Groveton to Vair (Diboll), 21 miles. Texas Southeastern R. R.: Lufkin to Diboll, 17 miles. St. Louis Southwestern Ry.: Broaddus to White City, 11 miles. Texas & New Orleans R. R.: Gallatin to Rusk, 9 miles. Texas & Gulf Ry.: Center to Zuber, 21 miles. Stamford & Northwestern Ry.: Stamford to West, 47 miles. Kansas City, Mexico & Orient Ry.: Truscott to Red River, 59 miles. Kansas City, Mexico & Orient Ry.: Between Sweetwater and San Angelo, 28 miles. Chicago, Rock Island & Gulf Ry.: Wildorado to Ontario, 20 miles. Trinity Valley & Northern Ry.: Dayton to Rosewood, 10 miles. Artesian Belt R. R.: Kirk, southward, 10 miles. Marshall & East Texas Ry.: Marshall, south, 2 miles. Burr's Ferry, Browndel & Chester Ry.: Turpentine to Browndell, 19 miles. Total, 376 miles.

Work is now under way on about 433 miles by a number of companies as follows: Atchison, Topeka & Santa Fe Ry.: Cut-off between Coleman, Tex., and Texico, N. Mex., 110 miles. Stamford & Northwestern Ry.: Aspermont, west, 36 miles. Pecos & Northern Texas Ry. (A., T. & S. F.).: Plainview to Lubbock, 42 miles. Tucumcari & Memphis R. R. (C., R. I. & Gulf).: Ontario to Tucumari, N. Mex., 70 miles. Kansas City, Mexico & Orient Ry.: Between Sweetwater and San Angelo, 37 miles. Timpson & Henderson Ry.: Ragley to Henderson, 30 miles. Enid, Ochiltree & Gulf Ry.: Dalhart to Ochiltree, 108 miles. Total, 433 miles. Allison Mayfield, Austin, Tex., is Chn. R. R. Commission.

WICHITA, KINSLEY, SCOTT CITY & DENVER AIR LINE.—Company will receive bids in September to build from Kinsley, Kan., east to Wichita, about 125 miles. This company is organized with $100,000 capital. L. S. Smith is Pres. and T. E. Luttgerding Gen. Mgr., Kinsley Kan.

WILSON NORTHERN.—A 10-mile extension is planned in Mississippi County, Ark. H. H. Brown is Ch. Engr., Bardstown, Ark.

WINSTON-SALEM SOUTHBOUND RY.—Bids will be received on Aug. 2 for building this railway. It will be about 85 miles long and will run from Winston-Salem, N. C., via Lexington and Albemarle to Wadesboro, N. C. There will be three viaducts about 800 ft. long each; seven deck spans over Yadkin River; three spans 150 ft. each over Rocky River; 12 deck spans of 65 ft. over smaller streams and 16 steel overhead bridges. O. H. P. Cornell is Ch. Engr. and H. E. Fries, Pres., both at Winston-Salem, N. C. Surveys are made and right-of-way secured.

YAKIMA & VALLEY.—Contract has been let to G. T. AUMILLER, of North Yakima, Wash., for grading twelve miles of this railroad.

ELECTRIC RAILWAYS.

MERIDEN, CONN.—The Meriden, Middletown & Guilford Ry. Co. has been organized with $50,000 capital paid in. The following officers have been elected: Francis Atwater, Pres.; Joseph Merriam, of Middletown, Vice-Pres.; Eugene A. Hall, of Meriden, Secy.; C. E. Jackson, of Middletown, Treas. Work will be started on the line at once.

HAMILTON, N. Y.—The Utica Southern R. R. Co. has applied to the Public Service Commission, Second District, for permission to increase its capital stock from $600,000 to $1,000,000, the $400,000 increase to be preferred stock, and for authority to issue $968,800 capital stock, of which $568,800 is to be common stock; also for consent to issue a mortgage for $1,820,000 and for authority to issue an equal amount of bonds to be secured by this mortgage; also for permission to extend the route of its proposed electric railway from Hamilton to Norwich. E. H. Risley, Utica, N. Y., is Secy.

NEW YORK, N. Y.—See New York Central & Hudson River R. R. item under Railways.

DUQUESNE, PA.—We are officially advised that Duquesne & Dravosburg St. Ry. Co. will let contracts in a few weeks for building its proposed electric line. It will be three miles long, extending from the corner of Hamilton Ave. and First St., Duquesne, to Dravosburg. Survey has been made and right-of-way mostly secured. Fred. W. Scott, of Duquesne, is Pres.; Douglass & McKnight, 306 Fourth Ave., Pittsburg, are Engrs.; T. F. Van Kirk is Secy., Aliquippa, Pa. Noted on March 23.

HICKORY, N. C.—The Hickory Ry. Co. has secured right-of-way for its proposed line and partly completed surveys. Capital has been tentatively arranged. Contracts for construction will not be let until proposed hydro-electric development is completed to Catawba River. So noted on May 20. The railway will connect Catawba Springs, Newton, Brookford, Hildebran and Cliffs. A repair shop will be built at East Hickory. Capital stock authorized, $2,000,000; issued, $25,000. Bonds authorized, $7,000,000. M. E. Thornton, Box 443, Hickory, is Pres. and Gen. Mgr.; L. B. Buchanan, Vice-Pres.; B. F. Campbell, Secy; C. M. Blalock, Treas.

NEW ORLEANS, LA.—The New Orleans & Seashore Air Line Ry. will build an electric railway from New Orleans to Grand Isle, on the Gulf Coast, 47 miles, via Anesville, Harang, Barataria and a ridge through the bayous. About twelve miles of trestle and four or five small bridges will be built. J. W. T. Stephens is Engr.-in-Charge, 303 Cotton Exchange Bldg. Contractors are LAIRD & BLACK, Spruce and Monroe Sts., New Orleans. This line is to be constructed in connection with the establishment of a new town by the Southern Garden & Townsite Co., of which J. E. Glisson is Pres., 435 Carondelet St.

MEMPHIS, TENN.—We are officially advised that contracts will not be let by the Memphis, Covington & Northern Ry. Co., for building an electric railway to connect Memphis, Millington, Mumford and Covington, 38 miles, until capital is secured. Surveys are made and 90% of right-of-way obtained. G. B. Gillespie, Covington, is Pres.; J. B. Withington, Mumford, Vice-Pres.; J. T. Garner, Covington, Secy.-Treas. Noted on May 20.

NELSONVILLE, OHIO.—The Hocking & Sunday Creek Traction Co. has been incorporated to build an electric railway from Nelsonville to Athens, with branches to Chauncey; also a line from Sugar Creek to the Sugar Creek coal mines. Headquarters, Nelsonville. Capital stock, $300,000. Incorporators are E. B. Young, J. Gaston Coe, M. A. King, Chas. A. Vorhes, Warren N. Badger, H. H. Isler and Chas. E. Poston, of Nelsonville.

ZANESVILLE, OHIO.—Contracts have not been let yet by the Zanesville & Neigs Valley Traction Co. for building its proposed electric railway from Zanesville to Beverly, but it is announced that construction work will be started within six months. Estimates are now being made. E. R. Meyer, People's Savings Bank Bldg., Zanesville, is Pres.

The directors of the Muskingum & Morgan Railway, Light & Power Co. has elected the following officers: Andrew McDonald, Pres.; John J. Adams, Vice-Pres.; R. C. Burton, Treas.; W. H. Pierpont, Secy.; James McDonald and W. H. Atha, all of Zanesville. The company plans to build an electric railway between Zanesville and McConnelsville and also expects to furnish power and light to towns along the route.

UHRICHSVILE, OHIO.—Construction work is to be commenced soon by the Ohio Central Elec. Ry. Co. The proposed line will connect Wheeling, W. Va., Bridgeport, Cadiz, Uhrichsville and Dennison, a distance of 52 miles. It is proposed to install overhead trolley system. Capital stock authorized and issued, $500,000; bonds authorized $1,250,000. Carl C. Conkle, 1306 Machesney Bldg., Pittsburg, Pa., Pres.; Wylie N. Taylor, Wellsburg, W. Va., Vice-Pres.; C. U. Patterson, Uhrichsville, Secy.; H. L. Thompson, Uhrichsville, Treas.; A. Evans Townsend, Cadiz, is Gen. Mgr.

COLUMBUS, OHIO.—The Columbus, New Albany & Johnstown Traction Co., which connects Columbus and Gahanna, will build an extension from Gahanna to Johnstown. L. P. Stephens is Gen. Mgr., Ruggery Bldg., Columbus.

HAMMOND, IND.—It is announced that the Calumet Traction Co., which was recently incorporated to construct an electric railway from Hammond to East Chicago, North Calumet and Center, has changed its name to the Indiana & Chicago Traction Co. W. J. Riley, East Chicago, Ind., is Secy. Noted on April 8.

GARY, IND.—The Gary & Southern Traction Co. has obtained its right-of-way and will be prepared to commence construction soon. This line will connect Gary and Crown Point, twelve miles. H. W. Seaman is Pres., and F. M. Clark, Secy., The Rookery, Chicago.

CHARLESTON, ILL.—We are officially informed that the Oil Belt Traction Co., which was recently incorporated to build a railway from Charleston to Bridgeport, will let contracts for building its line. It will be 71 miles long. Capital stock, $100,000. Incorporators: G. E. Groves, D. W. Odell, D. J. Odell, Geo. P. Murrin and F. P. Willard, of Oblong, Ill Mr. Murrin is Pres.

HANNIBAL, MO.—The Hannibal & Jefferson City Interurban Traction Co. will be incorporated, with $4,620,000 capital by James P. Hinton, John T. Holme, William J. Roth, F. T. Hodgdon and C. H. Northam, all of Hannibal; J. O. Allison, C. P. Lamb, both of New London, Mo.; S. C. Gill, of Perry, Mo.; C. C. Helzer, of Santa Fee, Mo.; J. A. Botts, of Molino, Mo.; C. F. Clarke, Samuel Lock, S. J. Buckner, Mathias Crum and S. P. Emmons, of Mexico, Mo.; T. F. Murry, of Hereford, Mo.; J. A. Stuart, of Columbia, Mo.; J. H. Atkinson, of Fulton, Mo.; and J. F. Moerschel, of Jefferson City, Mo. The Missouri Engineering Co. will build this line, which will be 120 miles long and will extend from Hannibal to Jefferson City via Perry, New London, Santa Fe, Molino, Mexico, Hereford, Fulton, Columbia and Ashland. Officers of the engineering company are: De Groot Van Baekeman, of St. Louis, Pres.; John F. McDermott, Vice-Pres.; Richmond H. Phillips, Ch. Engr.

DENVER, COLO.—Preliminary arrangements have been completed by the Denver, Colorado Springs & Pueblo Interurban Elec. R. R. Co. and it is planned to begin construction at once. Practically all right-of-way has been secured between Denver and Colorado Springs. The line will be 65 miles in length from the city limits of Denver to the city limits of Colorado Springs. Power is to be furnished by the Central Colorado Power Co. from Denver, but the railway company will erect several substations along the line at points yet to be determined. Until the line to Colorado Springs is well under way or in operation it is probable that no action will be taken toward extending the line to Pueblo. Capital stock authorized, $1,500,000; bonds authorized, $3,000,000. Louis M. Pfeiffer is Pres. and Gen. Mgr.; W. T. Beriford, Vice-Pres.; Arthur E. Van Deusen, Secy.; W. H. Roberts, Engr., with headquarters at 534 Cooper Bldg., Denver.

The Denver & Fort Collins Interurban Ry., recently incorporated in Colorado, proposes to build an electric railway from Denver via Lafayette, Erie, Longmont and Berthoud to Fort Collins, also to Colorado Springs, Greeley, Golden and Morrison. Capital stock, $1,000,000. Incorporators: John Olson, Leslie De Remer, Fred O. Olson, Ralph Dougherty, R. E. Inskeep, Demerit E. Brown and Abner Graves.

KENNEWICK, WASH.—Application for a franchise has been made to the City Council by C. A. Lundy, S. C. Emmons and G. F. Richardson, Kennewick, to build an electric railway from Kennewick through Horse Heaven to the Kennewick Highlands.

REDLANDS, CAL.—The Redlands & Yucaipe Elec. Ry. will build its extension to Oak Glen next month, it is stated. W. D. Larrabee is Ch. Engr., Redlands.

SAN FRANCISCO, CAL.—The Peninsular Railway Co. has been incorporated in California, with $12,000,000 capital stock, as a consolidation of electric railways of the Southern Pacific System, including Peninsular Railroad Co., San Jose & Los Gatos Interurban Railway Co. and Santa Clara Interurban Railway Co. The consolidated company, it is said, will comprise all the present and contemplated railway systems on the San Francisco Peninsula, from that city to San Jose and vicinity, including those in intermediate towns. The total estimated length of the lines of the Peninsula Railway Co. is 222 miles. The directors of the new corporation are J. T. Burke, Paul Shoup, C. B. Seger, P. F. Dunne and F. E. Chapin.

FRESNO, CAL.—The FRANKLIN CONSTRUCTION CO., Cleveland, Ohio, has the general contract for building the Fresno, Hanford & Summit Lake Interurban Ry. Noted fully on July 8.

MORRISBURG, ONT.—The Morrisburg Elec. Ry. Co. will construct an electric railway between Morrisburg and Ottawa, 70 miles, via Williamsburg, Winchester, Chesterville, Morewood, Kenmore, Metcalfe and Greeley. C. M. Willard, Box 45, Morewood, Ont., is Pres. Right-of-way is secured. Company will be ready soon to begin construction.

BERLIN, ONT.—The People's Ry. Co. has plans ready for the construction of its proposed electric railway, which will connect Stratford, Woodstock, New Hamburg, Berlin, Guelph and intervening towns. It will be about 88 miles in length. A. N. Warfield, of New Hamburg, Ont., is Const. Engr. R. T. Gough, Toronto, is Ch. Engr. Company wil be capitalized at $1,000,000.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids will be received by Col. Edward Burr, Corps Engrs., U. S. A., until noon, Aug. 20, for electrical cable.

The Boston "Transcript" states that Guy C. Emerson, Supt. of Streets, has notified the GREATER BOSTON ILLUMINATING CO. that he has awarded it the contract for lighting the city's gas lamps for a period of five years. The Greater Boston Illuminating Co. offers to do the lighting at the rate of $20.49 per lamp, while the Rising Sun Street Lighting Co., which has had the contract for the past seven years, offers to do the work at a cost of $23.60 per lamp.

NEW BEDFORD, MASS.—The following are the bids received on July 9 by the County Commissioners for furnishing and installing electric lighting and gas fixtures in the Registry of Deeds Building: H. F. Esterbrook, Inc., Boston, $7,706; The Wilkinson Co., Inc., New Bedford, $7,047; Pettingell, Andrews Co., Boston, $6,989; Eastern Electric Co., New Bedford, $6,985; McKenny & Waterbury Co., Boston, $6,773; ROBERT D. IRELAND CO., 246 Boylston St., Boston, $5,598 (awarded contract); E. H. Tarbell Co., Boston, $3,786.

NEWPORT, R. I.—We are officially advised that the G. & W. Mfg. Co., 26 Cortlandt St., New York, submitted the lowest bid received by the Navy Department, on July 20, for the power plant work at the Naval Training Station, Newport, R. I. The amount of the bid was $11,630.

NEW YORK, N. Y.—Bids are asked by M. F. Loughman, Acting Comr. Dept. Water Supply, Gas and Electricity, until 2 p. m., Aug. 3, for furnishing and delivering 1,400 lamp-posts in the Borough of Manhattan; also for furnishing and delivering 850 lamp-posts in the Borough of Brooklyn.

BUFFALO, N. Y.—Bids were received on July 10 by Francis G. Ward, Comr. Pub. Wks., for furnishing and installing underground cables for the Police and Fire Departments in connection with the burial of city wires within the districts from which overhead wires are to be removed, and the lowest bid is that submitted by the National India Rubber Co., 42 Broadway, New York, at $40,433.

NIAGARA FALLS, N. Y.—The Cataract Power & Conduit Co. is having plans prepared by E. D. Pith, Consult. Engr., for a $100,000 brick and steel addition to their power-house at Niagara Falls. Charles R. Huntley, Buffalo, is Gen. Mgr.

HUDSON, N. Y.—Bids are asked by Charles H. Strong, Pres., Board of Mgrs. of the New York State Training School for Girls at Hudson, N. Y., until 1 p. m., Aug. 14, for the construction of power-house, coal pockets and trunk conduits at the institution. F. B. Ware is State Arch., Albany, N. Y.

SEWICKLEY, PA.—Bids are asked until Aug. 3 by the Light Committee for municipal lighting and 100 arc lights to be installed. M. M. Baker is Boro. Engr., 514 Broad St., Sewickley.

READING, PA.—GEORGE W. BEARD & CO., of Reading, have been awarded the contract to build the United Traction Co. electric substations at Mount Penn, Mohnton, Robesonia and Sanatoga, which will cost about $80,000. Walter A. Rigg, Reading, is Gen. Mgr.

NORTON, VA.—J. B. Sterrett, of Norton, has secured franchise for an electric light plant.

ALEXANDRIA, VA.—The Alexandria Electric Co. has changed ownership, it is stated, and been reorganized with Thomas C. Coleman, Pres., Cockeysville, Md.; H. C. Lucas, Secy., Baltimore, Md., and F. R. Weller, Gen. Mgr., Washington, D. C. It is proposed to double the capacity of the plant.

ROMNEY, W. VA.—John W. Dodd, Martinsburg, W. Va., plans to construct a hydro-electric plant at Hampshire County on the south branch of the Potomac River, near Romney, to develop electricity for lighting and power purposes.

ALBERTSVILLE, ALA.—The [illegible] tain Electric Co. plans to de[illegible] power on Short Creek and e[illegible] mission lines to Boaz, five m[illegible] O. McCord, Albertsville, is G[illegible]

MERIDIAN, MISS.—The Me[illegible] Railway Co. will erect an [illegible] power-house and install a 1,[illegible] and 1,000-KW. generator. [illegible] Consult. Electrical and Mecha[illegible]

TALLULAH, LA.—Contract[illegible] lighting plant machinery have [illegible] as follows: Engine, HARRI[illegible] DRY & MACHINERY CO., H[illegible] electric equipment, FORT W[illegible] TRIC CO., Fort Wayne, Ind.; [illegible] PLATT IRON WORKS, Dayto[illegible] Craig is City Engr.

CANTON, OHIO.—The Canto[illegible] is about to start the constructi[illegible] tion to the power-house at Ea[illegible] Commerce Sts., which will be [illegible] and large enough to accommod[illegible] and dynamo which will be plac[illegible] C. Anderson is Mgr.

COLUMBUS, OHIO.—Bids will be received until noon, Aug. 18, by the Board of County Commissioners for furnishing and installing a complete electrical lighting equipment for the county jail, including all lighting fixtures, electric lamps, conduits, wires, etc. John Scott is Clerk Bd. County Comrs.

MOUNT PLEASANT, MICH.—We are officially advised that plans are being prepared for water power development for the Chippewa River Power Co. The plant will be located here. W. F. Davidson, Port Huron, Mich., is Vice-Pres.

CHICAGO, ILL.—The Commonwealth Edison Co. has completed plans for the construction of a substation on Indiana and Seneca Sts. to cost, with machinery, about $100,000. W. A. Fox, Chicago, is Secy.

MILWAUKEE, WIS.—Plans have been filed with E. V. Koch, Building Inspector, by the F. Mayer Boot & Shoe Co. for a $20,000 building on Island Ave., between Walnut and Sherman Sts., to be used as a power plant.

*EARLHAM, IOWA.—Bids are asked by the Town Council until noon, Aug. 2, for the following improvements as per plans and specifications now on file in the office of W. S. Shepherd, Town Clerk: One power-house, equipment and installing of same for electric light plant; equipment and installing of same for water-works system. J. R. Thomson is Mayor.

LEAVENWORTH, KAN.—It is reported that the Great Northern Railway Co. will build a power plant here. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

HURON, S. DAK.—We are officially advised that the Huron Light & Power Co. has awarded the contract to the MINNEAPOLIS STEEL & MACHINERY CO., of Minneapolis, Minn., for furnishing engines for the electric light plant. The company will install one 100-HP. and one 150-HP. Muenzel producer gas engine, together with two 150-HP. Muenzel gas producers to replace the present steam equipment. Both of the engines will be belted to Allis-Chalmers generators.

JEFFERSON CITY, MO.—Bids will be received by Nelson C. Burch, Secy. Lincoln Institute, Jefferson City, until July 30 for covering pole line and wiring from the Missouri State Penitentiary to Lincoln Institute, transformers, arc lamps, wiring of buildings, etc. Ruebel & Wells are Engrs., 1420 Chemical Bldg., St. Louis.

GALVESTON, TEX.—The contracts for the new city arc lighting machinery and lamps were awarded by the Board of City Commissioners on July 13 as follows: to the ERIE CITY IRON WORKS for the engine and generator condenser and other station apparatus; and to the GENERAL ELECTRIC CO., of Schenectady, N. Y., for the lamps and rectifier outfits. The city is replacing the old 9.6 open arc by the new 4-amp. luminous arc of the General Electric Co., and the old simple non-condensing engines for up-to-date station apparatus. W. D. Masterson is City Supt. of Electricity.

SEATTLE, WASH.—Meacham & Babcock submitted the lowest bid on July 2 for cluster lights on Second and Third Aves. South, between Yesler Way and King St., and Occidental Ave., for $19,603, and the Olympic Foundry Co. for the posts at $3,824.

VALLEJO, CAL.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 28, for structural steel frame for Central Power Station Building No. 121, U. S. Navy Yard, Mare Island. Specifications are on file at the office of Engineering News, New York.

PRESCOTT, ARIZ.—Bids are asked by J. W. Pope, Ch. Q. M., Denver, Colo., until 11 a. m., Aug. 2, for furnishing electric current at Whipple Barracks, Ariz., for illuminating and small motor purposes.

MOSCOW, IDAHO.—We are officially advised that the Moscow Gas Co. has been organized here with a capital stock of $25,000. The company will proceed at once with the erection of its plant, the contract for which has been let to the DAVIS ACETYLENE CO., of Elkhart, Ind. W. A. Clarke is Mgr.

BRIDGES.

NEW LONDON, CONN.—The New York, New Haven & Hartford R. R. Co., according to press reports, plans to build a $7,000,000 bridge across the Thames River at New London, and has applied to the legislature for necessary permission. This bridge will be built, it is said, within two years and will run 200 ft. north of the old bridge. It will be a four-track structure.

NEW YORK, N. Y.—The Department of Bridges has prepared plans for the construction of approaches and footwalks on the New York & Putnam R. R. bridge over the Harlem River at 158th St., it is announced.

The approaches are to be of concrete and steel and are to include tender's houses and comfort station. The approach on the Bronx side will be about 343 ft. in length, while that on the Manhattan side, including concrete sidewalk, will have a length of about 182 ft. The estimated cost is $50,000. At the same time the New York Central & Hudson River R. R. Co. intends to overhaul and strengthen the bridge throughout. It is not the intention, however, to change either its location or its dimensions in any manner so as to interfere with the construction of these proposed new approaches. G. W. Kittredge is Div. Engr., N. Y. Central R. R. Co.

CRANFORD, N. J.—Bids will be received until Aug. 30 by the Bridge Committee, Board of Chosen Freeholders, at Elizabeth for building a highway bridge over the Rahway River at North Ave., Cranford. Jacob L. Bauer, Engr., 130 Broad St., Elizabeth.

MOOSIC, PA.—McCONVILLE & FITZPATRICK, of Pittston, Pa., have secured contract for constructing bridge at Moosic at $5,400.

*PHILADELPHIA, PA.—Bids were received on July 21 by George R. Stearns, Dir. Dept. of Public Works, for Schedule A, construction (a) bridge on line of Chelton Ave. under North Pennsylvania R. R', 42d Ward; double track steel plate girder bridge 80-ft. span, on concrete abutments; (b) bridge on line of 62d St. over Philadelphia, Baltimore & Washington R. R., 40th Ward; reinforced concrete highway bridge 70 ft. wide; (c) bridge on line of Roberts Ave. under Chestnut Hill Branch of Sonnecting Ry., 38th Ward; 3-track, 3-span steel plate girder bridge on concrete abutments and piers; (d) bridge on line of Hunting Park Ave. under Chestnut Hill Branch of the Connecting Ry., 38th Ward; double track, 3-span steel plate girder bridge on concrete abutments and piers; (e) bridge on line of Hunting Park Ave., under Norristown Branch of Philadelphia & Reading Ry., 38th Ward; double track, 3-span steel plate girder bridge on concrete abutments and piers. Bids were as follows:

(a) David Peoples, $41,525, 9 months; Richard Walsh, $46,897, 10 months; Owego Bridge Co., $38,000, 6 months; M. & J. B. McHugh, $40,723, 9 months; Filbert Paving & Construction Co., $44,734, 6 months; McGaw & Gray, $44,000, $44,734, 6 months; McGaw & Gray, $44,000, 5 months; McCormick & Co., $38,190, 9 months; McNichol Paving & Construction Co., $36,000, 4 months; American Paving & Construction Co., $55,000, 10 months.

(b) M. & J. B. McHugh, $27,400, 4 months; David Peoples, $29,600, 8 months; American Paving & Construction Co., $42,000, 10 months; Riley & Webber, $31,401, 6 months; McNichol Paving & Construction Co., $29,190, 4 months; McCormick & Co., $26,500, 9 months; Hennebique Construction Co., $26,790, 4 months; Owego Bridge Co., $36,900, 10 months.

(c) Owego Bridge Co., $43,260, to be completed in ten months; M. & J. B. McHugh, $38,000, 5 months; American Paving & Construction Co., $48,000, 8 months; Gilbert Paving & Construction Co., $32,300, 8 months Richard Walsh, $43,671, 10 months; McCormick & Co., $40,038, 6 months; Penn Bridge Co., $57,900, 6 months; David Peoples, $41,720, 8 months; McNichol Paving & Construction Co., $33,489, 4 months; Riley & Webber, $39,860; 6 months; John McMenamy, $33,400, 6 months.

(d) McNichol Paving & Construction Co., $36,845, 4 months; McCormick & Co., $34,568, 5 months; McGaw & Gray, $38,500, 5 months; David Peoples, $39,723, 10 months; Penn Bridge Co., $39,500, 6 months; M. & J. B. McHugh, $38,180, 4 months; Riley & Webber, $36,849, 6 months; American Paving & Construction Co., $45,000, 8 months; Field, Barker & Underwood, $40,500, 8 months; Richard Walsh, $35,789, 9 months; John McMenemy, $32,800, 6 months; C. P. Bauer Construction Co., $36,375, 6 months; Owego Bridge Co., $37,900, 8 months.

(e) McNichol Paving & Construction Co., $37,453, 4 months; John McMenemmy, $47,000, 5 months; Richard Walsh, $45,447, 9 months; McCormick & Co., $35,258, 6 months M. & J. B. McHugh, $39,300, 4 months; C. P. Bauer Construction Co., $39,800, 6 months; McGaw & Gray, $52,000, 5 months; American Paving & Construction Co., $67,000, 1 year; David Peoples, $40,611, 11 months; Field, Baker & Underwood, $45,500, 10 months; Owego Bridge Co., $39,810, 8 months; Penn Bridge Co., $49,000, 6 months.

CHAMBERSBURG, PA.—Bids are asked until 11 a. m., Aug. 6, at office of County Commissioners, for erection of a reinforced concrete bridge over Black Creek.

ALLENTOWN, PA.—Bids are asked until 1.30 p. m., Aug. 9, by the Board of County Commissioners for reinforcing of wooden covered bridge over Jordan Creek, Sieger's Mill, Lehigh County.

SUNBURY, PA.—Bids will be received by the Commissioners of Northumberland County until 11.30 a. m., Aug. 3, for erection of a bridge on Liberty St.

BOWLING GREEN, VA.—Bids will be received until noon, July 30, by P. St. J. Wilson, State Highway Comr., Richmond, for constructing a bridge over Downing Creek, near Cedar Lane, Caroline County. Bids will be received on steel and reinforced concrete; a 70-ft. span for the steel and two 34-ft. spans for the reinforced concrete.

CHARLOTTE, N. C.—The Carolina Engineering Co., of Burlington, N. C., it is announced, desires to sublet the erection of one set of steel tubes 48 x 58 ft., and of two steel spans, 150 x 12 and 110 x 12. The bridge is 28 miles from Charlotte, N. C. As the foundation is more than ordinarily difficult, the company will sublet only to parties having sufficient experience and capital to insure their completing the work.

ASHEVILLE, N. C.—The Buncombe County Commissioners invite plans, specifications and bids until Aug. 17 for construction of bridge across French Broad River, to connect Asheville with West Asheville. Each bidder is to prepare plans and specifications of such character as he considers desirable.

GRIFFIN, GA.—Bids will be received until Aug. 10, by the Commissioners of Spalding and Henry Counties for building a steel bridge. Plans by Solomon Norcross & Co., Atlanta, Ga. Wm. E. H. Searcy, Jr., County Clerk.

ATLANTA, GA.—The Atlanta, Birmingham & Atlantic Railroad Co., Alexander Bonnyman, Gen. Mgr., Atlanta, Ga., has awarded contract to AMERICAN BRIDGE CO., New York, for erection of eight steel bridges.

NEWPORT, TENN.—Bids will be received until July 31 by the Commissioners of Cocke County for erection of steel bridge across Pigeon River and for grading and macadamizing 70 miles of road. B. W. Hooper, Secy., Cocke County Pike Commissioners.

MEMPHIS, TENN.—The Memphis Park Commission has awarded contract to JAMES A. OMBERG, of Memphis, to construct 16 concrete bridges in Overton and Riverside Parks and along park drive. Cost, $14,000.

TUSCARAWAS, OHIO.—Bids were received on July 19 by the County Commissioners at New Philadelphia, for constructing a reinforced concrete arch bridge, making a fill thereon and approaches thereto over the Tuscarawas River in Warwick Township, near Tuscarawas. Estimated cost, $35,498. A. V. Donahey is County Audr. Contract was awarded to SWANSON BROS., Massollin, Ohio, at $31,197.

AKRON, OHIO.—Bids will be received until Aug. 12 by the Board County Commissioners (Chas. L. Wirth, Clk.) for the extension of the Kenmore Bridge over the Ohio Canal.

ELYRIA, OHIO.—Bids were received on July 15 for steel bridge in Brownhelm Township. Contract was awarded to the MT. VERNON BRIDGE CO., Mt. Vernon, Ohio., at $3,953; abutments for same, to CHAS. A. HAMIL, Amherst, Ohio, at $2,469.

CRAWFORDSVILLE, IND. — Bids are asked until 10 a. m., Aug. 3, by B. B. Engle, County Auditor, for constructing a bridge.

FRANKLIN, IND.—Contract for constructing two bridges with concrete abutments, etc., has been awarded to ALBERT HARMON, of Columbus, Ind., at $4.40 per cu. yd.

COVINGTON, IND.—Bids are asked until 1.30 p. m., Aug. 3, by W. B. Gray, County Auditor, for constructing three bridges and repairing one bridge.

CLAYTONVILLE, ILL.—Bids will be received until 1 p. m., July 30, for the material for and the erection of a 120 x 16 ft. highway bridge with reinforced concrete floor. Plans and specifications may be seen at the office of W. E. Miller, Town Clk., Claytonville.

*CHICAGO, ILL.—Bids for excavating a channel, designated as Section 3 of the North Shore Channel, and for performing certain collateral bridge and sewer work are asked by the Sanitary District of Chicago, room 1500, American Trust Bldg., until noon, Aug. 25. I. T. Bryan is Clk.

BARABOO, WIS.—Bids will be received at the City Engineer's office until Aug. 2 for constructing a steel or concrete bridge across the Baraboo River, between the city and town of Baraboo. W. H. McFetridge, Chn. Street Com.

FARGO, N. DAK.—Bids are asked until noon, Aug. 11, by the County Auditor for erecting and repairing various bridges. Arthur G. Lewis, County Audr.

YANKTON, S. DAK.—Bids were received on July 19 by Helen B. Russell, City Clk., for erection of steel, reinforced concrete bridge over Rhine Creek. Contract was awarded to N. M. STARK & CO., Yankton, at $3,500.

MONTICELLO, ARK.—Drew County Commissioners plan building a bridge across Bayou Bartholomew.

LAWTON, OKLA.—The Commissioners of Comanche County will receive bids until Aug. 16 for erection of nine steel bridges.

KALAMA, WASH.—BURNHAM & BYRNES of Kelso, Wash., have been awarded contract by Commissioners of Cowlitz County to construct a 150-ft. span steel bridge over the Kalama River in Township 6 North.

SOUTH BEND, WASH.—Bids will be received until Aug. 2, by Board of County Commissioners for constructing a bridge, with abutment and approaches, across the Willaka River, in Sec. 25, Township 13 North, Range 8 West, W. M. Alternative bids for steel span, combination span and wooden span, and for cylinder concrete piers, and for framed bents and pile piers will be received.

SACRAMENTO, CAL.—Contract for constructing a reinforced concrete bridge 100 ft. long near Mason House has been awarded to the CLARK & HENRY CONSTRUCTION CO., of Sacramento, at $8,790.

*MERCER, CAL.—Bids are asked until 10 a. m., Sept. 21, by the Board of Supervisors, Merced County, for construction of steel bridge across the Merced River. P. J. Thornton, Clk.

SALINAS, CAL.—Bids are asked by the Supervisor of Monterey County until 2 p. m., Aug. 2, for the following construction work (plans and specifiations by Lou G. Hare, County Surv.): A reinforced concrete bridge on the Salinas-Castroville Road; jetties on the Salinas River, near San Ardo, San Lucas, King City, Gonzales, Hilltown and Toro Creek; renewing approach to Neponset bridge.

GOFF, IDAHO.—The County Commissioners have awarded the contract for constructing a wagon bridge over the Salmon River at Goff to the SHEELEY BRIDGE CO., of Denver, Colo., at $15,173.

STEWARTVILLE, ONT.—Contracts for constructing a steel bridge, three spans, with concrete piers and abutments, over the Madawaska River at Stewartville, about eight miles from Arnprior, have been awarded as follows: Superstructure to J. R. M. QUIGGE, of Arnprior, $4,995; superstructure to HAMILTON BRIDGE CO., Hamilton, Ont., $4,200. Maccalum & McAllister, Continental Life Bldg., Toronto, are Engrs.

WINNIPEG, MAN.—Plans are being prepared for two new superstructures, one over Red River, the other Assiniboine River; also for a bridge over the C. P. R. R. yards. H. L. Ruttan is City Engr.

PRINCE RUPERT, B. C.—Contract has been awarded, it is reported to the CANADIAN BRIDGE CO., of Walkerville, Ont., at $400,000, for putting up six steel bridges on the first section of the Grand Trunk Pacific Ry. east from Prince Rupert, B. C.

BUILDINGS.

PORTSMOUTH, N. H.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 28, for constructing oil storage houses at the Navy Yards at Portland, N. H., and Boston, Mass. Specifications are on file at the office of Engineering News, New York.

BOSTON, MASS.—See Portsmouth, N. H.

*FORT WARREN (Boston post-office), MASS.—Bids are asked by Capt. R. H. Rolfe, Constr. Q. M., 263 Summer St., Boston, until 10 a. m., Aug. 24, for installing steam heating apparatus in Officers' Quarters No. 1, at Fort Warren, Mass.

*FORT WARREN, MASS.—Bids are asked by Capt. R. H. Rolfe, Constr. Q. M., 263 Summer St., Boston, Mass., until 10 a. m., Aug. 20, for the construction, including plumbing, heating, electric wiring and fixtures, of one single set of Hospital Corps Sergeants' Quarters at Fort Warren, Mass.

BUFFALO, N. Y.—We are officially advised that H. Osgood Holland, Arch., 417 Mutual Life Bldg., has prepared plans for a 3-story apartment house, 62 x 92 ft., of stone, brick and architectural steel construction, to be erected at 107 Oakland Pl. by Norris Morey, 200 Sumner St. The masonry contract has been let to GEORGE SCHAEF, 547 East Utica St., Buffalo, and the carpenter contract to CHRISTIAN FLIERL, 1356 Genesee St., Buffalo.

G. Morton Wolfe, Arch., 638 Ellicott Sq., is preparing plans and will soon receive bids for a 2-story and basement store and office building, 75 x 100 ft., to be erected at the corner of Main and East Utica Sts., by J. C. Henkel, Corning, N. Y. Construction will be of brick and structural iron, with stone trimmings. Estimated cost, $40,000.

The Buffalo City Glass Co., M. J. Blodgett, Pres., 98 Seneca St., will erect a 4-story and basement store and warehouse building, 72 x 165 ft., at 101-105 Seneca St., of brick and steel construction. Cost, $50,000.

WATKINS, N. Y.—Bids are asked by Chas. M. Woodward, Secy. of the American Scenic and Historic Preservation Society, Watkins, N. Y., until noon, Aug. 10, for the construction complete, of a waiting pavilion, including plumbing, at Watkins Glen, Watkins, N. Y. F. B. Ware is State Arch., Albany, N. Y.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 5, by the Park Board, for furnishing all the labor and materials for the erection and completion of a public comfort station and storehouse in the New York Zoological Park, in Bronx Park, in the City of New York. Henry Smith is Secy.

Work will begin at once on the demolition of the old Hotel Metropole Building at the southwest corner of Broadway and 42d St. to make way for the erection of a structure to be called the Heidelberg Building, and which will be started shortly after the plans are filed. Greenwood & Co. are the promoters and Mgrs. for the owners, the 1465 Broadway Co. Henry Ives Cobb is Arch., 42 Broadway. The C. L. GRAY CONSTRUCTION CO., 42 Broadway, has taken the contract for erecting the building. The new structure will be a 6-story building, designed for ultimate extension to 30 stories. It will be of steel fireproof construction. Above the sixth floor, at a height of 100 ft. above the curb, will rise a tower of English perpendicular Gothic style, 150 ft. high, solid walled, and unoccupied, to be devoted exclusively to electrical advertising on its four sides. It and the entire building will be of white terra-cotta, with buff ornate trimmings. The cornice at the base of it, constituting a seventh floor, will likewise be devoted solely to advertising. The building will be a store and office structure, with a rathskeller in the basement. It will front 51 ft. on Broadway, 86 ft. on 42d St. and 100 ft. on its southern line. It will cost about $500,000.

Otto J. Schwarzler has filed plans for two 5-story flat houses, 44.15 x 87.6 ft. and 45 x 90 ft., to be built on the east side of Brook Ave., 94.34 ft. north of 167th St., from plans by Albert J. Schwarzler, 776 Wendover Ave., Arch. The cost is $90,000.

NEW YORK, N. Y.—Plans have been filed for a 13-story apartment house at Riverside Drive, 156th to 157th Sts., for the Riviera Realty Co., on a plot 208 x 185 ft. The building will have twelve apartments on a floor, of from six to ten rooms, with two and three baths. There will be four elevators and a series of exterior courts. The cost of the structure will be $1,700,000. Mark Ash is Pres.; H. Sonn is Vice-Pres., and Max Marx is Treas. of the company. The architects are W. L. Rouse and L. A. Goldstone, 43 West 34th St.

The same architects have filed plans for an apartment house twelve stories high, to be built at the northeast corner of 96th St. and West End Ave., on a plot 100 x 116 ft. The structure will contain three apartments on a floor, designed to be interchangeable, giving apartments of seven to eleven rooms, with three and four baths. The cost will be $700,000. The Allendale Building Co. is the owner, Benjamin Mordecai Pres.

Plans have been filed by the same architects for a 10-story apartment house at the southeast corner of 98th St. and Riverside Drive, containing five apartments on a floor, from six to eight rooms, with two and three baths, costing about $600,000. The Barkin Construction Co. is owner.

Pickering & Walker, 5 East 42d St., Archs, for the No. 829 Park Ave. Co., M. K. Miller Pres., have filed plans for a 12-story apartments, 107 x 100 ft., to be erected on the southeast corner of Park Ave. and 76th St. The house will contain 48 apartments. It is to cost $600,000.

McKim, Mead & White, 160 Fifth Ave., Archs. for the Metropolitan Museum of Art, have filed plans for a 2½-story boiler house to be erected in an interior court of the Metropolitan Museum of Art Building, opposite 82d St. and Fifth Ave., at a cost of $350,000.

Plans have been filed for adding one story to the Fifth Ave. front of the Methodist Book Concern Building at 150 Fifth Ave. and three stories on the 20th St. side, at a cost of $75,000. Milton See & Son are Archs., 6 West 22d St.

NEW YORK, N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, have been awarded the general contract for the construction of the A. B. Emmet Building, at 55th St., near Tenth Ave., New York. D. E. Baxter, 77 Pike St., New York, is Arch. The building will be 75 x 95 ft., four stories in height and of reinforced concrete throughout. Work will be undertaken at once.

NEW YORK, N. Y.—Bids are asked by the Board of Water Supply, until 11 a. m., Aug. 17, for Contract 50; construction of three office buildings and the two horse sheds and moving one horse shed in the Croton Division of the Catskill Aqueducts, in the Towns of Yorktown and Newcastle, Westchester County, N. Y.

PITTSBURG, PA.—Plans are being prepared by D. H. Burnham & Co., 9 Jackson Boulevard, Chicago, for the proposed Pennsylvania R. R. terminal buildings which will occupy the old Cathedral site, the property of Henry C. Frick, at Grant St. and Fifth Ave. James McCrea is Pres. P. R. R.

ALLENTOWN, PA.—DOYLE & CO., 1519 Sansom St., Philadelphia, have been awarded the contract to continue construction to the extent of $338,600, on the Allentown Hospital for the Insane by the State Homeopathic Hospital Commission. The amount stated will build three wards, two chapels and three corridors, but before the full quota of 1,600 patients can be accommodated nearly $1,000,000 must be expended. It is intended that enough of the building shall be completed so that the Danville and Norristown asylums may be relieved.

BALTIMORE, MD.—Augustus Hampson has been granted a permit to build 15 3-story brick dwellings—twelve to be on the west side of Brookfield Ave., near Ducatel St., and three to be on Ducatel St., near Brookfield Ave. Each will be 15 x 64 ft. and will be built on a foundation of stone laid in cement. The fronts will be pressed brick, with marble trimmings, and the roofs will be covered with slag. Cost, about $75,000.

The Wilson Amusement Co. has awarded the contract for the erection of its moving picture and vaudeville theater at 12 and 14 North Gay St. to H. L. MAAS, who will begin the work in a few days. The building will be 43 x 123 ft. and will have a seating capacity of about 600. The plans were made by T. W. Pietsch, Arch., American Bldg. It will be a 1-story fireproof structure, with handsome interior and exterior decorations, and will cost about $50,000. The material will be steel and concrete. In addition to the Gay St. building the structure at 418 East Baltimore St. will be altered and used for an entrance.

Contracts have been awarded to JOHN COWAN, 106 West Madison St., Baltimore, for the transforming the old building corner John St. and Lafayette Ave., known as the Hospital for the Women of Maryland, into a modern hospital. Parts of the old building will be taken down and additions will be made, extending to the lot lines on Lafayette Ave. and John St. The plans of Joseph Evans Sperry, Arch., Calvert Bldg., adopted by the Building Committee, were submitted to the surgical staff of the hospital and approved by them before the contracts were awarded. Accommodation is provided in a separate ward on the third floor for 20 free patients. This ward has windows on opposite sides and is thoroughly ventilated. There will also be a number of single-bed rooms and rooms to accommodate two, three and four beds. The work will cost about $70,000 and will be completed to enable the hospital to be reopened by Dec. 1. The kitchens will be located on the top floor.

WASHINGTON, D. C.—We are officially advised that Milburn, Heister & Co., Archs., Home Life Bldg., are preparing plans and specifications for a 5-story steel frame fireproof building, 200 ft. deep, at 1322 New York Ave., for C. C. Calhoun. The structure will have white terra cotta front, fireproof floors, steam heat and electric elevators.

W. H. Walker and O. H. P. Johnson have purchased property near the Union Station and will erect a 7-story fireproof office building, with a terra cotta front. Milburn, Heister & Co., Archs., Home Life Bldg., have been selected to prepare the plans. Contracts will be awarded as soon as plans are completed.

Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, until 11 a. m., Aug. 21 (change of date from July 31), for improvements to Building No. 41 at the Navy Yard, Washington. Specifications are on file at the office of Engineering News, New York.

*WASHINGTON, D. C.—Bids are asked by Frank Pierce, Acting Secy., Dept. of the Interior, Washington, until 2 p. m., Aug. 17, for remodeling the boiler plant at the Government Hospital for the Insane at Washington, D. C.

ROANOKE, VA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Roanoke, Va., to JONES & ADAMS, Lynchburg, Va., at $82,279.

NATIONAL SOLDIERS' HOME, VA.—We are officially advised that R. H. RICHARDSON & SON, of Hampton, Va., have secured the contract to construct two barracks and a chapel at the Southern Branch, National Home for Disabled Volunteer Soldiers at $82,713 and $33,813, respectively. Maj. John T. Hume is Treas.

CHARLESTON, S. C.—Bids are asked by Col. F. L. Denny, Q. M., U. S. Marine Corps, Washington, D. C., until 11 a. m., Aug. 20, for the erection and completion of one marine barracks and two sets of officers' quarters at the Navy Yard, Charleston, S. C.

*NEW ORLEANS, LA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 31, for the construction, excepting mechanical equipment and interior finish, of the U. S. post-office and court-house at New Orleans, La.

PARIS, KY.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 30, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Paris, Ky.

OWENSBORO, KY.—Bids were received as follows on July 27 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Owensboro, Ky.: D. J. Phipps, Newport News, Va., $151,600; Alfred Struck Co., Louisville, Ky., $152,183; M. Yeager & Son, Danville, Ill., $151,751; King Lumber Co., Charlottesville, Va., $164,000; Christ Kausler & Son, Evansville, Ind., $197,335; Walter Brashear, Henderson, Ky., $180,000; Owensboro-Sondheim Brick Co., Owensboro, Ky., $173,900; Owensboro Planing Mills, Owensboro, Ky., $174,500; John G. Unkefer & Son, Minerva, Ohio, $166,600; W. H. Fissell & Co., New York, $157,750; J. E. & A. L. Pennock, Philadelphia, $155,800; Harry A. Bishop, Chicago, Ill., $156,875.

MARYSVILLE, OHIO.—We are officially advised that on July 17, the contract for constructing the Union County Children's Home, was let to W. R. WAIDMAN & CO. Bids received for this work on June 21 were rejected on account of an irregularity in the law.

LA FAYETTE, IND.—Thomas Andrew will ask for bids for the construction of a 3-story business block on Maine St., West La Fayette, as soon as plans can be completed.

The Trustees of Purdue University have let a contract to W. P. JUNGCLAUS, 825 Massachusetts Ave., Indianapolis, for the construction of the Farm Mechanics' building, at $19,950. It will be a stone and brick structure. The Trustees have awarded a contract to the LAFAYETTE ENGINEERING CO. for the construction of the Practical Mechanics' building, at $95,430. It will be of brick and stone.

JASPER, IND.—Bids are asked by the Commissioners of Dubois County until 1 p. m., Sept. 6, for construction of a court-house. Estimated cost, $75,000. M. A. Sweeney is County Audr.

INDIANAPOLIS IND.—Lodge No. 17, Royal Order of Moose, is preparing to ask for bids for the erection of a 4-story business and lodge hall building, to be erected at the corner of New Jersey and Walnut Sts. Estimated cost, $150,000. E. F. Harris, Dr. A. E. Teague, C. C. Hartman and A. Womae are members of Bldg. Com.

The contract has been let to JOHN A. SHOEMAKER CO., 818 East St. Clair St., for the erection of a parochial school building at the corner of North and Rural Sts., at $75,000.

Plans have been completed for the 6-story Carnegie library building to be erected in this city. Bids will be in order soon.

LINTON, IND.—Bids are asked by the Trustees of the First Christian Church until Aug. 21 for the construction of modern church on Main and C Sts.

CONNERSVILLE, IND.—A contract has been awarded to the PAN-AMERICAN BRIDGE CO., of Newcastle, Ind., to construct a large amphitehater at Roberts Park. The structure will require 180 tons of steel.

PERU, ILL.—We are officialy advised that plans have been completed by R. H. Richard, Arch., 134 Van Buren St., Chicago, Ill., for a hotel to be erected at Peru, Ill., for the Hotel Association of this city. The building will be three stories high, covering an area of 60 × 118 ft. It will be built of brick and stone, with composition roof, hardwood finish, steam heat, electric light, elevator and modern appliances. Cost, $50,000. Contracts will be let about Aug. 10.

DANVILLE, ILL.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded to M. YEAGER & SON, Danville, Ill., contract for the construction of a post-office at Danville, Ill., at $176,450. Time, March 1, 1911.

MADISON, WIS.—Board of Regents, University of Wisconsin, awarded contract for wing addition to Engineering building and new Dairy building, to T. C. McCARTHY, Madison, Wis., at $57,683. The Engineering wing will be 40 × 70 ft., three stories; the Dairy building, 40 × 80 ft., two stories. The construction of both buildings will be of brick and stone on steel skeleton.

SUPERIOR, WIS.—The Wisconsin Board of Normal School Regents, Madison Wis., has commissioned Van Ryn & De Gelleke, Archs., Caswell Block, Milwaukee, to prepare plans for the following work: At Superior, solid brick dormitory building, 60 × 110 ft., three stories; cost, $60,000. Foundations to be constructed in fall; superstructure next spring. At Whitewater, addition to model training school and library, 68 × 79 ft., three stories, solid brick; cost, $50,000. To be completed Feb. 1, 1910. At Stevens Point, boiler-house, to cost $17,000. At Oshkosh, boiler-house, to cost $18,000, and to be ready Dec. 1, 1909.

MILWAUKEE, WIS.—Lee DeCamp, Arch. for the United Theaters Co., New York, will prepare plans for remodeling Patterson building, 220-228 West Water St., into theater and for a 5-story addition in the rear.

PLATTEVILLE, WIS.—The following bids were received on July 26 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Platteville, Wis.: Bartlett & Kling, Inc., Cedar Rapids, Iowa, $56,000; Interstate Construction Co., Ltd., Saginaw, Mich., $53,394; General Construction Co., Milwaukee, Wis., $58,110; Henry Ferge, Milwaukee, Wis., $53,700; Stewart & Hager Co., Janesville, Wis., $58,900; Appleton Construction Co., Appleton, Wis., $69,500.

SHENANDOAH, IOWA.—Bids were received as follows on July 21 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Shenandoah: Interstate Construction Co., Ltd., Saginaw, Mich., $58,637; Bartlett & Kling, Inc., Cedar Rapids, Iowa, $58,500; King Lumber Co., Charlottesville, Va., $56,950; General Construction Co., Milwaukee, Wis., $57,950; Charles W. Gindele Co., 3333 La Salle St., Chicago, $55,975; Henry Ferge, Milwaukee, Wis., $61,900.

CLARINDA, IOWA.—James Knox Taylor, Superv. Arch., of the Treasury Dept., Washington, D. C., has awarded to the KING LUMBER CO., Charlottesville, Va., contract for the construction of a post-office at Clarinda, Iowa, at $47,900. Time for completion, Sept. 1, 1910.

DULUTH, MINN.—The Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. has had architects prepare plans for a fireproof passenger station to cost $100,000. P. Swenson is Superv. of Bridges and Bldgs.

The State Board of Control, P. M. Ringdal, St. Paul, Chn., has awarded the contract for the construction of a ladies' dormitory at the State Normal School, Duluth, to THEODORE NAUFFTS, of Duluth, at $53,664. The Board also has awarded the contract for the ladies' dormitory at the State Normal School at Moorhead to JOHN LAURITZEN, of Fergus Falls, Minn., at $64,145. C. H. Johnston, Manhattan Block, St. Paul, is Arch.

ST. PAUL, MINN.—Bids are asked until Aug. 18 by the Board of School Inspectors, C. W. Gordon, Pres., for the general construction of the East End High School, at York, Wells and Walsh Sts. Buechner & Orth, Manhattan Block, are Archs. Cost, $115,000.

Boyer, Taylor & Tewes, St. Paul, are preparing plans for a pressed brick and cut stone church, 88 × 160 ft., for St. Adelbert's Church, at Gaultier and Charles Sts. It will have steam heating; seating capacity, 900; marble and tile work, slate or tiled roof. Cost, $60,000.

Bids are asked by the Board of School Inspectors, C. W. Gordon, St. Paul, Pres., until noon, Aug. 9, for the general construction of the Mechanic Arts High School at Robert St. and Central Ave. Plans were prepared by Rankin, Kellogg & Crane, Archs., 1912 Walnut St., Philadelphia, Pa. Cost, $275,000.

E. L. Masqueray, Manhattan Block, is taking figures on the construction of the exterior of the Roman Catholic Cathedral. The exterior will be built of granite. The dome will not be constructed this year. Total cost of building, $2,000,000.

WICHITA, KAN.—E. L. Masqueray, Arch., Dispatch Bldg., St. Paul, Minn., has awarded the contract for the general construction of the Roman Catholic Cathedral here to the WURSTER CONSTRUCTION CO., city. Rev. J. Eihen is Rector. Cost, $135,000.

RAWLINS, WYO.—James Knox Taylor, Superv. Arch., of the Treasury Dept., Washington, D. C., has awarded to the NORTHERN CONSTRUCTION CO., Milwaukee, Wis., contract for the construction of a post-office building at Rawlins, Wyo., at $71,700.

SEATTLE, WASH.—Mrs. Budlong, 806 Columbia St., is advertising for plans for a $75,000 apartment house.

The Finance Committee of the City Council has accepted plans for a 6-story fireproof $60,000 library building, to be built on the triangular lot in front of the old City Hall.

MONTESANO, WASH.—The County Commissioners have accepted plans by Watson Vernon, of Aberdeen, Wash., for a court-house and jail to cost, respectively, $125,000 and $40,000.

PORTLAND, ORE.—Plans are being made by the Hertig Amusement Co. for the erection of a theater building to be erected at the northwest corner of Taylor and Seventh Sts., this city. Estimated cost, $125,000.

B. L. Munson, of this city, has purchased a tract of property upon which he will erect a building for business purposes.

BERKELEY, CAL.—The Southern Pacific Co. is having plans drawn for a passenger station at this city and will ask for estimates about Aug. 1. W. Hood is Ch. Engr., San Francisco.

SAN FRANCISCO, CAL.—Work will be started this month on the proposed building for the Angle-London-Paris Bank, to be erected on Sutter and Sansome Sts., at a cost of about $140,000.

At a recent meeting of the Board of Public Works a contract was let to CALDWELL & CO. for the general construction of the Hall of Justice, at a cost of $257,139. As the steel work is not yet in place, it will probably be some time before the contract can be commenced. There were five bidders.

PHOENIX, ARIZ.—We are officially advised that the contracts have been let for the construction of the proposed 4-story National Bank of Arizona building, estimated to cost $150,000. W. J. Bliesner is the Arch. The general contract has been let to CLINTON CAMPBELL, at $80,000; fixtures, A. H. ANDREWS & CO.; vault, DIEBOLD SAFE & LOCK CO.

SALT LAKE CITY, UTAH.—We are officially advised that the Z. C. M. I., a corporation, will erect a 4-story, 4-room brick and steel fireproof store at 26-40 East South Temple St., to cost about $100,000. Rutherford & Hansen are Archs. The A. & J. McDONALD CO. have secured the contract.

BOISE, IDAHO.—Work will be started shortly on a 6-story business and office building to be erected in this city by the Kerr Hardware Co. at a cost of $125,000. Nisbet & Paradice are Archs.

OTTAWA, ONT.—We are officially advised that the contract for construction of the Chateau Laurier has been awarded to the GEORGE A. FULLER CO., Fuller Bldg., New York. T. T. Amos will superintend the work. It will take 15 months to complete. The Grand Trunk Railway System is erecting the building at a cost of $1,500,000. Ross & Macfarlane, Bank of Ottawa Bldg., Montreal, are Archs.

WATER SUPPLY—IRRIGATION.

CHELSEA, MASS.—Bids will be received until July 31 by the Board Water Commissioners, George E. Mitchell, Chn., for laying about 5,100 ft. of 12-in. and 2,800 ft. of 16-in. c.-i. water pipe, with special castings.

WATERBURY, CONN.—Bids were opened on July 13 by the Board Public Works, Waterbury, for constructing a concrete dam and conduit for the diversion of Morris Brook, near the site of a new storage reservoir, in the town of Morris. Contract has been awarded to GEORGE S. ABBOTT, of Watertown, Conn., at $12,025. R. A. Cairns is City Engr.

MANCHESTER, CONN. — The Eighth School District, which obtained a charter from the Legislature to acquire and operate a water system, organized on July 10 and voted $50,000 to be used in purchasing and installing the equipment. A report made by C. E. Norton showed that it will require 40,650 ft. of pipe of 10.6 and 4-in. diameter, together with 56 hydrants, gates, curb boxes, connections to mains, standpipes and motors. Charles L. Ricketts is Pres.

GOWANDA, N. Y.—The State Lunacy Commission has awarded the following contracts: To HURLEY & LYNE, of Fredonia, N. Y., for the construction of a reservoir for water storage at the Gowanda State Hospital, Gowanda, at $8,500, and to ERIE CITY IRON WORKS, 149 Broadway, New York, for the installation of three horizontal tubular boilers at the Gowanda State Hospital, at $6,455. Bids were opened on July 7. List of bidders noted on July 15. T. E. McGarr is Secy. Comn.

*BINGHAMPTON, N. Y.—Bids are asked by the State Lunacy Commission, Albany, until 3 p. m., Aug. 18, for the extension of the water supply system, for a new steam and return mains, and rebuilding of trestle at the Binghampton State Hospital, Binghampton. T. E. McGarr is Secy. F. B. Ware is State Arch.

NEWBURGH, N. Y.—The proposed waterworks improvements here will cost about $158,000. Curtis Stanton is Supt. W. Wks.

BUFFALO, N. Y.—Bids were opened on July 14 by Francis G. Ward, Comr. Pub Wks., for excavating, concrete brick and iron work for two pipe tunnels from 42 ft. easterly from present pumping station wall to the westerly crib line of Front St. Contract has been awarded to the B. I. CROOKER CO., of Buffalo, at $21,500.

BUFFALO, N. Y.—The city has awarded to B. I. CROOKER, 4 Builders' Exchange, the general contract for construction of a pumping station at foot of Porter Ave., 365 × 400 ft., steel, stone, brick and concrete construction. Estimated cost, $383,000. Robert A. Wallace, 19 Builders' Exchange, is Arch. Bids will be received at once by Francis G. Ward, Comr. Pub. Wks., for two chimneys for the pumping station, each to be 250 ft. high, brick and terra cotta, with special base 58 ft. high of concrete stfuctural iron and terra cotta.

OLEAN, N. Y.—The citizens are reported to have voted on July 15 to issue $119,000 of bonds for constructing water-works and sewers in the new sections of the city; the purchase of a steam road roller and other improvements.

NIAGARA FALLS, N. Y.—The Water Commission on July 19 rejected all bids received for laying the intake pipe and constructing the intake pier for the new waterworks, all bids being in excess of the estimate, of $53,400.

AUBURN, N. Y.—The Water Board of Auburn decided on July 16 to build a filtration plant for the purification of the water supply of the city. Cost, $170,000.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Aug. 4, for furnishing, delivering and laying water mains and appurtenances and removing existing water mains in Evergreen, Lee, Marcy and Sumner Aves., in Forrest and Roebling Sts., and furnishing, delivering and setting branches, valves and hydrants on existing mains in Bedford and Throop Aves., Boro Brooklyn.

NAYAUG, PA.—Contract was awarded on July 14 by the Delaware, Lackawanna & Western R. R. Co., to R. T. McGOWAN, of Avoca, for the excavation work for the company's reservoir here. The reservoir will cover 20 acres and hold 2,000,000 gallons of water.

FROSTBURG, MD.—Bids are asked by the city until July 30 for the construction of a reservoir, 85 × 100 ft. and 15 ft. deep.

*WASHINGTON, D. C.—Specifications are on file at the office of Engineering News, New York, for furnishing 200 fire hydrants. Bids are asked until Aug. 7.

HIGHLAND PARK, (Richmond post-office), VA.—The city has voted $50,000 of bonds for water-works and extension of sewer system and electric light plant.

WHEELING, W. VA.—Bids will be received until Aug. 11 by the Board of Control for furnishing, delivering and erecting a 20,000,000 U. S. gallon, triple-expansion, high-duty crank and fly-wheel pumping engine. J. Richard Kommer, Engr., 1112 House Bldg., Pittsburg, Pa.

HIGH POINT, N. C.—The city has engaged Gilbert C. White, Durham, N. C., to survey watershed in order to secure pure water supply. He will have charge of improvement work and supervise construction.

CHESTER, S. C.—Plans and specifications are on file at the office of Engineering News, New York, for furnishing and installing wood tank gravity filters and turbine pumps, motors, foot valves, gate valves and electrical equipment. Bids are asked until Aug. 3. James Hamilton is City Engr.

NEWBERRY, S. C.—Bids will be received until Aug. 10 by the Board Public Works, M. L. Spearman, Chn., for the extension of the water and sewerage system. Wilson, Sompayrac & Urquhart are Engrs., Columbia.

MADISON, FLA.—The city has voted $5,000 of bonds for the extension of water mains. R. H. Rowe is Mayor.

ANNISTON, ALA.—The city has engaged J. N. Hazelhurst, Atlanta, Ga., as consulting engineer to furnish estimates on the cost of a new water system and to examine the plant of the Anniston Water Supply Co., which has been offered for sale to the city.

JACKSONVILLE, ALA.—Negotiations are now pending for the purchase of the waterworks. If purchased the plant will be remodeled. Edgar B. Kay, of Tuscaloosa, is Engr.

JACKSON, MISS.—The water-Works Commission is formulating plans for the filtration of the water supply.

*VICKSBURG, MISS.—Bids are asked until 8 p. m., Sept. 6, by the Mayor and Aldermen for laying a water main in Cherry St. J. J. Hayes is Mayor.

BATESVILLE, MISS.—The city has voted to construct a water-works system.

DONALDSONVILLE, LA.—The city has awarded contract to HAUBTMAN & LOEB CO., New Orleans, La., for installing a pump in the power-house.

*NEWPORT, KY.—We are officially advised that the following are the low bidders for the improvements to the water-works system: For a compound vertical 5,000,000-gallon pump set up at the pump-house: The Platt Iron Works, Dayton, Ohio, $30,118; for the construction of the 20-in. main from the reservoir to the city: The Gradison Co., Cincinnati, $36,792; for the pressure tank, to be located in Clifton Heights, R. D. Cole Mfg. Co., Newnan, Ga., $4,699; for the valves and other extras, two firms, the W. T. Johnston Co., Cincinnati, $1,118, and the Bourbon Copper & Brass Works, Cincinnati, $1,278. Bids were opened on July 15. J. W. Hill & Sons, Cincinnati, are Engrs.

ALLIANCE, OHIO.—We are officially advised that the FRED M. PRESCOTT STEAM PUMP CO., of West Allis, Wis., has secured contract at $13,400, for a 5,000,000-gallon pump for city water-works. L. E. Chapin, is Engr.

*DELTA, OHIO.—The NATIONAL CONSTRUCTING CO., South Bend, Ind., has secured contract for constructing water-works with deep wells as a source of supply and a distributing system consisting of about 5 1-3 miles of 40-in. to 10-in. c.-i. pipe. Bids were opened on July 15. Riggs & Sherman Co., Toledo, are Engrs.

MOUNT HEALTHY, OHIO.—The citizens have voted in favor of issuing $35,000 of bonds for the improvement of the waterworks.

PLEASANT HILL, OHIO.—We are officially advised that the C. L. OLDS CONSTRUCTION CO., of Fort Wayne, Ind., has been awarded contract at $5,045 for the construction of water-works. Bids were opened on July 17 by the Board of Public Affairs. A. C. Reed, Pleasant Hill, is Engr.

MILWAUKEE, WIS.—The Board of Public Works, Charles J. Poetsch, City Engr., has awarded contract for 2,340 tons of 36-in. c.-i. water pipe to the U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, at $24.40 per ton. Total $57,340.

MILWAUKEE, WIS.—The Board of Public Works will receive bids until July 30, for furnishing all materials and doing all the work necessary and required to lay a 30-in. c.-i. water supply main in and along Wright St., from Ninth St. to 24th St.; then south on 24th St., Ash St. and West 24th St., to Meinecke Ave.; on Meinecke Ave. to 29th St., then to Galena St. Bidders to state price per lin. ft.

GREENBUSH, MINN.—Bids are asked until Aug. 10, by A. F. Kular, Village Clk., for laying about 1,200 ft. of water mains.

BAUDETTTE, MINN.—The village will receive bids for a water-works and electric light plant, also sewerage system until 4 p. m. Aug. 6. Total amount of bond issue to cover the above work, $23,500. O. Claussen, German-American Bank Bldg., St. Paul, Minn., is Engr.

BELDEN, NEB.—We are officially advised that the Village Council has selected Arnold C. Koenig & Co., 616 Bee Bldg., Omaha, to prepare plans and specifications and superintend the construction of a complete system of water-works here. F. B. Barber is Village Clk.

DICKINSON, N. DAK.—Bids will be received until Aug. 2 by the City Council for constructing twelve blocks of 6 and 8-in. water mains. A. J. Osborn is City Audr.

LARAMIE, WYO.—The Interstate Reservoir Construction Co. has been incorporated by E. J. Bell, C. P. Arnold and others. The

principal place of business and general office will be Laramie. The company is capitalized at $300,000, and will have for its object the building of reservoirs, dams, water courses, aqueducts, mills, hydraulic works, power plants, equipment works, dwelling houses and other purposes.

GLASGOW, MONT.—Bids are asked until Aug. 11 by the city for a water-works system, including pumping station, complete, 200,000-gallon concrete reservoir, 16,400 ft. 6-in. pipe, 4,350 ft. 8-in. pipe, 2,550 ft. wood pipe. Alternate bids will be received of iron and wood pipe on the 6 and 8-in. pipe. E. S. Severance is City Engr.

OKEMAH, OKLA.—The town will receive bids for a complete water and light plant until 8 p. m., Aug. 5. Work will consist of tubular boilers, steam engine, steam pumps of half million gallon capacity, heater, feed pump, dynamo, electric motor, pipe, hydrants, pole and wire line, etc. Plans are on file at Okemah, Okla.; at Muskogee, Okla., and at 1416 First National Bank Bldg., Chicago, Ill. M. A. Earl & Co. are Engrs., Muskogee, Okla.

FORT COLLINS, COLO.—We are officially advised that the Council opened bids on July 17 for the construction of a filter of 4,000,000 gallons daily capacity, the bidders to furnish plans and specifications. The bids were as follows: Mechanical filters: ROBERTS FILTER MFG. CO., of Philadelphia, $37,480 (awarded contract); New York Continental Jewell Filtration Co., of New York, $38,000; Greer Mfg. Co., $41,000; slow sand filters: Holm & Allen, of Denver, $58,925; Fisher-Dempsey Construction Co., of Pueblo, $58,-950; O'Brien & Son, Denver, $81,000. R. W. Gay is Engr.

TRINIDAD, COLO.—The directors of the Model Land & Irrigation Co. awarded contract on July 14 to JOHN LAUGHLIN, of Pueblo, for concrete work for dam.

SPOKANE, WASH.—According to press reports a large private irrigation project will be installed in the Horse Heaven country, southwest of Spokane, where 600,000 acres of land is to be watered at a cost of $15,000,000. The Klickitat Irrigation Co. is backing the scheme, which is to be in operation within five years. The main canal will be 150 miles in length and there will be 16 reservoirs to be filled during the winter months and melting snow from Mount Adams in the summer.

BELLINGHAM, WASH.—A water main is to be laid in the street extending from Sylvan to Ellis Sts. Estimated cost, $6,670.

EUGENE, ORE.—The City Council has decided to lay a 10-in. wooden water pipe from E. 13th St. to E. 15th and Walnut Sts., by way of Columbia Ave.

SAN BERNARDINO, CAL.—It is reported that the Mojave River Power Co., latest successor to water rights along the Mojave River, including Victor dam site, will commence work on preliminary surveys next week for reservoir and irrigation system which it is planned to install.

TURLOCK, CAL.—Bids will be received by the Board of Directors of the Turlock Irrigation District, at the office of the board at Ceres, County of Stanislaus, until 11 a. m., Aug. 3, for the construction of that portion of the canal and works of said district in accordance with plans and specifications on file with the Board at their office in Ceres. L. N. Hires is Pres.

SAN FRANCISCO, CAL.—The Board of Public Works on July 7 awarded contract for furnishing gate-valves for auxiliary fire system to the PELTON WATER WHEEL CO., 19th and Harrison Sts., San Francisco, at $28,000. Marsden Manson is City Engr.

SALT LAKE CITY, UTAH.—The Independent Water Co., of this city, has incorporated for $25,000. It is the purpose of the company to construct a water system at Bingham Canyon. John McDonald is Pres.

SALT LAKE CITY, UTAH.—New bids will be received until Aug. 6 by the Board of Public Works, H. G. McMillan, Chn., for constructing the N. Temple St. aqueduct across W. Temple, First W. and Second W. Sts. Louis C. Kelsey is City Engr.

BURLEY, IDAHO.—The Burley Townsite Co. has donated $10,000 for a water system for this place.

IDAHO FALLS, IDAHO.—It is probable that the City Council will shortly order a large pump for the water supply system. Bonds will probably be issued to cover the cost.

NEW WESTMINSTER, B. C.—Bids will be received by the City Clerk, it is reported, until Aug. 9 for about 74,600 and 16,000 ft. steel pipe with inside diameter of 24 and 12 ins., respectively.

SEWERAGE.

(* *denotes that this work is advertised in Engineering News.*)

EASTHAMPTON, MASS.—The GEORGE W. CARR CO., of Worcester, has secured the contract for a 4-compartment settling tank and a 2-syphon dosing tank.

MALDEN, MASS.—The Board of Aldermen on July 13 appropriated $30,000 to extend the sewer system into the Linden District.

LENOX, MASS.—William S. Johnson, of Boston, in his report to the Board of Selectmen on the sewer system, recommends the expenditure of $30,000. This includes the relaying of about two miles of the west side system with c. i. pipe, a settling plant having a capacity of 200,000 gallons and five acres of filter beds properly underdrained and sludge beds of a quarter of an acre.

TROY, N. Y.—Bids will be received until July 30 by the Board of Contract and Supply, James M. Riley, Secy., for constructing a salt glazed vitrified drain pipe in Spring Ave., of Fifth Ward.

BUFFALO, N. Y.—The following are the bids opened on July 16 by the Board of Public Works for the construction of a brick sewer in Fillmore Ave., between Delavan and Kensington Aves.: Spiess & Fahning, $21,-000; John Miller, $22,000; B. F. Spire, $21,-900.

*OLEAN, N. Y.—Bids are asked by Charles Keenan, City Clk., until noon, Aug. 10, for the construction of an outlet sewer in the Eighth Ward, about 2 4/10 miles in length and the construction of an additional outlet sewer in the First, Fourth and Fifth Wards about 1.3/10 miles in length. Separate bids must be made for the construction of each sewer and the construction of each sewer will be let as a separate contract.

NEW YORK, N. Y.—We are officially advised that bids were received on July 20 by George Cromwell, Pres. Boro. of Richmond, for furnishing all the labor and material required for constructing a system of temporary sewers and appurtenances as follows: A separate sanitary sewer and a storm water overflow sewer in Canal St., from Bay St. to a point about 150 ft. west of Brook St., and other streets, together with all work incidental thereto; for furnishing all the labor and material required for constructing a system of temporary sewers and appurtenances, as follows: A combined sewer in Broad St., from Patten St. to Richmond Road, and other streets, together with all work incidental thereto. Contracts have been awarded to RODGERS & HAGGERTY, 75 Henry St., New York, at $85,764 for the Canal St. sewer and to the MERRILL-RUCKGABER CO., 50 Church St., New York, at $85,864 for Broad St. sewer.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Aug. 11, by Bird S. Coler, Boro. Pres., for furnishing all labor and material required for constructing sewers in various streets.

*AUBURN, N. Y.—Bids are asked by C. A. Koenig, Mayor, until 8 p. m., Aug. 17, for the construction of a disposal works. For details see advertisement.

*BELMAR, N. J.—Bids are asked by the Mayor and Council until 7:30 p. m., Aug. 24, for furnishing materials and labor required for the construction and equipment of certain sewers and sewage disposal works and the connection therewith of existing sewers and sea outlet pipe. Charles O. Hudnut is Boro. Clk.

RUTHERFORD, N. J.—Bids will be received until 8 p. m., July 30 by F. A. Stedman, Boro. Clk., for constructing sewers in Carmita Ave., Ayer and Ivy Pl.

SOUTH AMBOY, N. J.—S. S. Mason, of Perth Amboy, is preparing plans for the construction of a sewerage system here.

GLASSPORT, PA.—The THOMAS SWEENEY CO. has received contract at $3,132, for constructing a pipe sewer in Indiana Ave. and Ninth St. Bids were opened on July 12.

BALTIMORE, MD.—According to press reports contract will be let by the Sewerage Commission during this month for the disposal plant at Forest Park and a large amount of sanitary sewers in the vicinity of Forest Park, Garrison Ave., Liberty Road, and extending northward to Park Heights Ave., and the city limits. Estimated cost of proposed work, about $150,000. B. F. Fendall is City Engr.

PORTSMOUTH, VA.—Bids will be received at the office of the City Clerk, by the Street Committee until 8 p. m., Aug. 5, for furnishing and distributing on certain streets of the city the following sizes of No. 1 double strength vitrified sewer pipe: 42 lin. ft. of 24-in., length of joint 24 ins.; 190 lin. ft. of 18-in., length of joint 24 ins.; 36 lin. ft. of 15-in., length of joint 24 ins.; 18 lin. ft. of 12-in., length of joint 24 ins.; 550 lin. ft. of 27-in., length of joint 30 ins. Bascom Sykes is City Engr.

*VICKSBURG, MISS.—Bids are asked by the Mayor and Board of Aldermen until 8 p. m., Sept. 6, for the construction of a storm sewer in Cherry St. J. J. Hayes, is Mayor.

LOUISVILLE, KY.—Bids will be received by the Commissioners of Sewerage, W. C. Nones, Chn., until Aug. 6 for the construction of Sect. B of the Western Intercepter Contract 49. J. B. F. Breed is Ch. Engr.

*LOUISVILLE, KY.—Bids are asked by the Commissioners of Sewerage until noon, Aug. 13, for the construction of the Ewing Ave. sewer, Contract 50 of the Comprehensive System of Sewerage. J. B. F. Breed is Ch. Engr.

GREENCASTLE, IND.—Plans aren ow being completed by the Riggs & Sherman Co., of Toledo, Ohio, for the construction of the proposed sewerage system here.

MUNCIE, IND.—Plans have been ordered prepared upon which to ask for bids for the construction of a large sewer in Walnut St.

GREENCASTLE, IND.—Plans are now bepared by Charles A. Brown, Asst. City Engr., in charge of sewers, for a large sewerage system west of Belmont Ave., between the Sellers farm and Haughville. Cost, approximately, $200,000. The sewer, which will be of the combination sanitary and storm sewage type, will drain the west end of Haughville, West Indianapolis west of Belmont Ave., Mount Jackson, the West Park addition and the Central Indiana Hospital for the Insane grounds.

Plans are being drawn for local sewers in Rucke St., Park Ave. and Broadway to connect with the College Ave. sewer. The local sewers will each be about one-half mile long. Blaine H. Miller is City Engr.

OWOSSO, MICH.—Bids are asked until 7.30 p. m., July 29, by the Board of Public Works, A. H. Dumond, Secy., for constructing about 3,200 ft. of 24-in., 925 ft. of 20-in. and 900 ft. of 8-in. vitrified crock sewer.

DETROIT, MICH.—The following are the lowest bids opened on July 16 by the city for sewers: Cameron Ave., sewer $9,075, George Winterhalter; Vinewood Ave., $4,-521, J. A. Mercier; Linwood Ave. sewer, $4,442, William Porath; 31st St. sewer, $12,-760; by the same; Central Ave. sewer, $44,-610, James Hanley.

LITCHFIELD, ILL.—J. E. and B. S. CRAINE, Carbondale, Ill., have secured contract at about $19,000, for constructing sewers for this city.

PROPHETSTOWN, ILL.—Bids are asked by the Board of Local Improvements until 2 p. m., Aug. 3, for the construction of a sewer system, as a whole, in certain prescribed territory.

*CHICAGO, ILL.—See item under Bridges.

HUDSON, WIS.—Bids are asked until 8 p. m., Aug. 2, by E. E. Denniston, City Clk., for constructing an 8-in. pipe sewer in Division St.

DELAVAN, WIS.—The GEORGE W. GRAHAM CO., Freeport, Ill., has secured contract for constructing about one mile of sewer for this city.

IOWA FALLS, IOWA.—Bids are asked until Aug 2, by F. E. Foster, City Clk., for constructing 6½ blocks of 8-in. sanitary sewer and for laylag two water main extensions.

CEDAR RAPIDS, IOWA.—M. FORD, Cedar Rapids, was awarded contract on July 16 by the city for constructing the Grand Ave. sewer at $13,191. Other bidders were: Bartlett & Kling, $21,353; Dearborn & Jackson, $18,963.

ALBIA, IOWA.—We are officially advised that plans for sewers for the Fourth Ward have been prepared. M. G. Hall, C. E., Centerville, Iowa, is Engr.

DECORAH, IOWA.—Plans have been prepared for a sewer system here including about ten miles of sewers, septic tank and sand beds. Estimated cost about $75,000. F. M. Hughes is City Clk.

ALBERT LEA, MINN.—Bids will be received by the City Council until 5 p. m., Aug. 19, at the office of C. J. Dudley, City Clk., for doing all the work and furnishing all the materials for the complete construction of a trunk sewer. The following is the approximate amount of the labor and material necessary for such construction: 2,495 lin. ft. of 15 in. sanitary sewer; 110 lin. ft. of 40-in. × 48-in. reinforced concrete sewer; 243½ lin. ft. of 15-in. × 48-in. horse-shoe shaped double sewer; 1,140 lin. ft. 12-in. and 36-in. × 48-in. double sewer; 497 lin. ft. of 12-in. and 33 in. × 44 in. double sewer; Concrete retaining wall at outlet; nine manholes; one inverted siphon of 10-in. c. i. pipe and siphon manhole; sewage lift and pumping machinery; 2,500 cu. yds. of earth embankment over sewer; six storm water inlets; three storm water catchbasins; concrete inlet at southeast corner of park; and all the necessary appurtenances belonging thereto, according to plans and specifications on file in the office of the City Clerk.

DICKINSON, N. DAK.—Bids will be received by the City Council until Aug. 2 for constructing ten blocks of sewer pipe. A. J. Osborn, City Audr.

RUGBY, N. DAK.—JAMES KENNEDY, Fargo, N. Dak., has secured contract at $12,-679, for constructing a sewer system and septic tank, bids for which were opened on July 13.

RED LODGE, MONT.—PETER OREN, Butte, Mont., has secured contract at $28,-207, for constructing sewer system for this city. Bids were opened on July 8.

GLENDIVE, MONT.—JAMES KENNEDY, of Fargo, N. Dak., has secured contract for laying about 14,000 ft. of sewer here.

ROGERS, ARK.—Bids will be received by the Board of Sewer Commissioners, until Sept. 1 for furnishing material and constructing sewers here. M. A. Earle & Co., of Muskogee, Okla., are Engrs.

FORT WORTH, TEX.—The contract for constructing 17 miles of sewers, on the north side has been awarded to the GENERAL SUPPLY & CONSTRUCTING CO., of Fort Worth. Estimated cost, $100,000.

ALBUQUERQUE, N. MEX.—GLASS & FISHER, Bakersfield, Cal., have secured the contract for constructing the sewer system here. Bids were opened on July 10. Estimated cost, about $260,000. James N. Gladding is City Engr.

HOQUIAM, WASH.—The City Council will receive bids for the construction and laying of a wooden box sewer in Queen Ave., together with laterals, all in Park Addition.

SAN BERNARDINO, CAL. — The City Council has awarded contract for constructing a sewer in B and Eleventh St., etc., to the SAN BERNARDINO HARDWARE CO. Harry Allison is City Clk.

LOGAN, UTAH.—We are officially advised that bids were opened on July 21 by the city for Sewer District No. 1, comprising 1,400 lin. ft. 18-in., 4,300 lin. ft. 12-in., 5,570 lin. ft. 10-in., 11,312 lin. ft. 8-in., and 6,613 lin. ft. 6-in. pipe. 76 brick manholes. Average depth of trench, 11 ft. The bids follow: Davis & Heuser, Salt Lake City, Utah, $59,695; P. J. Moran, Salt Lake City, $59,979; J. P. O'Neill Const. Co., Ogden, $60,100; Wheelwright Const. Co., Ogden, $62,350; Moran & Co., Ogden, $62,460; Tibby & Jordan, Salt Lake City, $74,950.

NORTH TORONTO, ONT.—The citizens voted, it is stated, on July 17, to issue $140,000 of bonds to construct a sewer system, and $30,000 to open up streets east and west and parallel to Yonge St.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

BETHEL, ME.—Bids for building a section of state road about 1,100 ft. in length in the town of Bethel, will be received by the Selectmen until 2 p. m., July 31.

LAWRENCE, MASS.—Bids were opened by the City Council on July 14 for constructing 10,000 sq. yds. granolithic walks on Essex St., 16-in. excavation, 12-in. cinders, broken stone or screened gravel; 3-in. concrete base mixed 1, 2 and 5 and 1-in. wearing surface. The contract has been awarded to PHILIP HOLLAND, of Lawrence, at $1.30 per sq. yd. Other bidders were: Warren Bros. Co., Boston, $1.33; Simpson Bros. Co., Boston, $1.34; M. O'Mahoney, Lawrence, $1.37; William P. Rae, Lawrence, $1.40; W. A. Murtfeldt, Boston, $1.44; Hassam Pavement Co., Worcester, $1.49; J. Wagenbach & Son, Lawrence, $1.57; Jere J. Sullivan, Boston, $1.57½.

Bids were also opened at the same time for 17,721 sq. yds. of paving on Water St., with blocks taken from Essex St. and laid on sand foundation with cement grout joints. Contract has been awarded to M. O'MAHONEY, of Lawrence, at 57 cts. per sq. yd. Other bids were: Philip Holland, Lawrence, 84 cts.; C. I. Duggan, Boston, 85 cts.; Hassam Pavement Co., Worcester, 87 cts.; Wagenbach & Son, Lawrence, 87 cts.

BOSTON, MASS.—We are officially advised that bids were received as follows on July 24 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for paving at navy yard, Boston: Worcester Paving Co., Worcester, Mass., $7,493; C. W. Dolloff & Co., 20 Central St., Boston, $8,797; C. M. Leach, P. O. Box 2285, Boston, $7,383; John E. Burns, 53 Langdon St., Roxbury, Mass., $6,934; John McCourt & Co., 728 Parker St., Boston, $7,985; Simpson Brothers Corporation, 166 Devonshire St., Boston, $7,-374; John B. O'Rourke & Co., 184 Summer St., Boston, $8,260.

HARTFORD, CONN.—Bids for the construction of state road work will be received at the office of the State Highway Commissioner until 2 p. m., July 31, as follows: Town of Oxford on the Seymour road, 7,310 lin. ft. gravel, including one 12-in., four 15-in., two 18-in. and one 24-in. tile culverts; town of Andover, on the Willimantic Turnpike, 8,362 lin. ft. of gravel, including three 24-in. tile culverts; town of Wilton, on the Norwalk and Ridgefield road, 7,850 lin. ft. gravel, including two 24-in. tile culverts; also 11,467 lin. ft. gravel, including three 24-in., three 20-in., four 15-in., five 15-in. and one 12-in. tile culverts on the Danbury road; town of Greenwich, on the Boston Post road, 11,369 lin. ft. macadam, including one 24-in. and one 15-in. tile culverts; town of Trumbull, on the Long Hill road, 17,000 lin. ft. macadam, including six 18-in., four 12-in. and six 15-in. tile pipe culverts; town of Ridgefield, 553 lin. ft. gravel on extension of Wilton road; town of Farmington, 4,207 lin. ft. grading, including two 24-in. tile culverts; town of Burlington, 10,000 lin. ft. grading, including two 18-in., seven 15-in., two 24-in. and one 12-in. tile culverts; town of New Britain, 3,122 lin. ft. macadam on W. Main St., town of Thomaston, 6,250 lin. ft. macadam, including one 30-in., eight 15-in. and two 12-in. tile culverts; town of Hebron (readvertised) eight sections gravel and graded road, aggregating about 7,100 lin. ft., including two 20-in., one 24-in. and one 15-in. tile culverts.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were opened on July 22, have been awarded as follows: Town of Vernon, 5,222 lin. ft. macadam-telford, to LANE CONSTRUCTION CORPORATION, Meriden, at $1.46 for lin. ft. for macadam and $1.98 for telford. Other bidders were: Amos Bridge's Sons, Hazardville, $1.82 and $2.42; A. Brazos & Sons, Middletown, $1.76 and $2.30; A. E. Douglass, Glastonbury, $1.56 and $2.10. Town of Easton, 1,450 lin. ft. heavy grading, with railing, including two 24-in tile culverts, to E. P. MILLS, Westport, at $2.750 and 40 cts. per lin. ft. for railing. Other bidders were: Eveline Bros., New Britain, $9.750 and 40 cts.; Goodman & Trumbull, Litchfield, $7,484 and $1; B. D. Pierce, Jr., Co., Bridgeport, $13,500 and 70 cts. Town of Redding, 2,700 lin. ft. grading and telford, including two 15-in. tile culverts, to GOODMAN & TRUMBULL, Litchfield, at 42 cts. per lin. ft. for grading and $1.07 per lin ft. for telford. No other bidders. Town of Norfolk, 2,601 lin. ft. macadam-telford and railing, to the Board of Selectmen, at $1.65 per lin. ft. for macadam, $2.25 per lin. ft. for telford and 25 cts. per lin. ft. for railing; Goodman & Trumbull, Litchfield, Conn., only other bidder, bid $2.12, $2.95 and 40 cts. City of New Britain, 3,035 lin. ft. macadam and cobble gutters, to A. C. STERNBERG & SONS, West Hartford, at $1.46 for macadam and 54 cts. per sq. yd. for gutters. Other bidders were: Connecticut Contracting Co., New Britain, $1.75 and 50 cts.; Lane Construction Corporation, Meriden, $2.07 and 60 cts. Bids were also received for the following, but contracts were not awarded: Town of Southington, 9,104 lin. ft. macadam-telford, A. Brazos & Sons, Middletown, $1.68 for macadam, $2.54 for telford, $2.53 per sq. yd. for brick work and 60 cts. per sq. yd. for gutters; Pierson Engineering & Construction Co., Bristol, $1.75, $2.35, $2.50 and 65 cts.; C. W. Tryon, Meriden, $1.62, $2.42, $2.38 and 65 cts. Town of Hebron, eight sections of gravel and grading work, aggregating 7,671 lin. ft., including two 20-in., one 24-in. and one 15-in. tile culverts. Amos Bridge's Sons, Hazardville, $14,992; A. Brazos & Sons, Middletown, $14,980.

*MADISON BARRACKS (Sacket Harbor post-office), N. Y.—Bids are asked by Constructing Quartermaster, U. S. A., until 2 p. m., Aug. 21, for construction and improvement of (about 500 ft. × 12 ft.) driveways and of (about 4,500 sq. ft.) walks, at this post. Information on application. Plans and specifications may also be seen in the office of the Chief Quartermaster, Governor's Island, N. Y.

HORNELL, N. Y.—Bids will be received by the Board of Public Works, M. E. Chesebro, Acting Supt., until Aug. 2 for grading, curbing and paving with vitrified brick or block on concrete foundation Genesee St., requiring about 4,942 sq. yds. pavement and 3,114 lin. ft. curb.

NEWBURGH, N. Y.—Bids were opened on July 12 by D. J. Contant, City Clk., for paving about 4,600 sq. yds. with brick on Broadway. Contract has been awarded to the TODD CONSTRUCTION CO., of Newburgh, at $12,927.

NORTHPORT, N. Y.—GEORGE H. GIFFORD, 385 Fulton St., Jamaica, L. I., N. Y., has been awarded contract for paving Main St., the work including 4,600 cu. yds. excavation, 3,600 lin. ft. concrete curb, 2,100 sq. yds. paved gutters, 4,500 sq. yds. Peekskill gravel pavement and 2,600 ft. B. M. timber bulkhead.

NEW YORK, N. Y.—The lowest bid on July 13 by Louis F. Haffen, Pres. Bronx Boro., for paving with asphalt block on concrete foundation Fulton Ave., from 170th to 175th St., and setting necessary curb, Contract 10, was submitted by the Hastings Pavement Co., 25 Broad St., as follows: 13,725 sq. yds. completed asphalt block pavement, keeping same in repairs for five years from date of acceptance, $1.84; 2,165 cu. yds. concrete, including mortar bed, $6; 1,700 lin. ft. new curb, furnished and set in concrete, $1.05; 5,430 lin. ft. old curb, rejointed, recut on top and reset in concrete, 35 cts. Total, $41,029. The Barber Asphalt Paving Co. bid $43,626. The same company were low bidders for asphalt on other streets in Bronx Boro. as follows: Contract 11, Elsmere Pl., $4,324; Contract 12, E. 135th St., $8,410; Contract 6, Courtlandt Ave., etc., $6,669; Contract 8, Hoe Ave., $14,555.

The Barber Asphalt Paving Co., 30 Church St., submitted the lowest bid July 13 for repaving with asphalt block on a concrete foundation roadway of Park Ave., East, from 165th St. to E. 175th St., excepting approaches to proposed bridge at 167th St., Bronx Boro., as follows: 28,600 sq. yds. completed asphalt block pavement, keeping same in repair for five years from date of acceptance, $1.77; 3,610 cu. ft. concrete, including mortar bed, $6; 300 lin. ft. new curb, furnished and set in concrete, 96 cts.; 400 lin. ft. old curb, rejointed, recut on top and reset in concrete, 85 cts.; 28,590 sq. yds. old paving blocks, to be purchased and removed by contractor, 1 ct., the amount bid for this item to be deducted from the payment on acceptance. Total, $72,510. The Hastings Pavement Co. bid $73,624. Same firm was low bidder for Contract 5, Park Ave., W. and E. 175th St., $14,792, and Contract 9, Anna Pl.

The lowest bid opened on July 13 at the office of Louis F. Haffen, Pres. Bronx Boro., for Contract 13, regulating, grading, setting curb, flagging, laying crosswalks, building approaches and placing fences in Sheridan Ave., from E. 165th St. to E. 169th St., was submitted by C. W. Collins, 5189 Broadway, as follows: 9,000 cu. yds. earth excavation, $1; 13,700 cu. yds. rock excavation, $1; 4,100 lin. ft. new curb, furnished and set, 70 cts.; 16,100 sq. ft. new flag, furnished and laid, 23 cts.; 450 sq. ft. new bridge stone for crosswalks, furnished and laid, 50 cts.; 100 cu. yds. dry rubble masonry in retaining walls, culverts and gutters, $2; 100 lin. ft. vitrified stoneware pipe, 12 ins. diameter, 1 ct.; 750 lin. ft. guard rail in place, 15 cts. Total, $29,811. Other bidders were: Voorhies-Sullivan Contracting Co., $30,762; J. B. Malatesta, $30,758; Wakefield Construction Co., $35,667; C. Schneider, $30,536; P. J. Kane Contracting Co., $36,391.

The following are the bids for Contract 14, regulating, grading, setting curb, flagging sidewalks, laying croswalks, building approaches and placing fences in E. 182d St., from Jerome Ave. to Valentine Ave., T. J. Gillis, $19,178; C. Schneider, $18,268; Haggerty Contracting Co., $17,451; J. B. Malatesta, $17,706; P. J. Kane Contracting Co., $21,215, and J. C. Rodgers, Jr., $15,630.

BROOKLYN, N. Y.—Bids are asked by the Park Board, Fifth Ave. and 64th St., Manhattan, until 3 p. m., Aug. 5, for furnishing and delivering Hudson River road gravel in parks and on parkways, Boro. Brooklyn.

ALBANY, N. Y.—Bids are asked by the State Highway Commission until 1 p. m., Aug. 13, for the repair and resurfacing of state highways as follows: Herkimer County, Little Falls-Dolgeville road No. 133, town of Manheim; Jefferson County, Burr Mills road No. 147, towns of Rutland and Watertown; Redwood-Alexandria Bay road No 182, Sec. 1, town of Alexandria; Pierpont Manor-Ellisburg road No. 184, town of Ellisburg; state road No. 185, town of Loraine; watertown-Sacketts Harbor-Henderson road No. 181, Sec. 1, town of Hounsfield; Depot road No. 186, town of Lyme; Clinton County, Plattsburgh-Keeseville road No. 137, Sec. 2, towns of Plattsburg and Peru; Plattsburgh-Mooers road No. 138, Sec. 1, towns of Beekmantown and Chazy; Saratoga County, Waterford road No. 39, Sec. 1, town of Waterford; Waterford road No. 59, Sec. 2, town of Half Moon; Glens Falls-Saratoga road No. 58, Sec. 1, town of Moreau; Rensselaer County, Sand Lake-Troy road No. 194, towns of Sand Lake and Poestenkill; Hoags Corners road No. 55, town of Nassau; Washington County, Shunpike road No. 97, town of White Creek.

Bids were received as follows on July 19 by the Board of Contract and Supply for various pieces of street improvement work: For improvement of Morris St., from Lake Ave. to Ontario St., Edward F. Dillon, Albany, $21,247; Holler & Shepard, Rochester, N. Y., $23,416; Mulderry Bros., Albany, $22,144; North Hudson Contracting Co., Albany, $19,715; Michael F. Dollard, Albany, $22,022. (Itemized bids for this work will be given next week under Contract Prices.) For improving State St., from Quail to Ontario Sts., Edward F. Dillon, $10,238; Holler & Shepard, Rochester, $10,077; Mulderry Bros., Albany, $9,599; North Hudson Contracting Co., Albany, $9,860; Michael F. Dollard, Albany $10,024; John M. Holler, Albany, $9,443. For the improvement of Myrtle Ave., from South Lake Ave. to Quail St., Holler & Shepard, Rochester, $11,327; Mulderry Bros., Albany, $10,032; John M. Holler, Albany, $11,680; North Hudson Contracting Co., Albany, $9,879; Michael F. Dollard, Albany, $11,382. For the improvement of North Pearl St., near the Homeopathic Hospital, North Hudson Contracting Co., Albany (granite block or concrete, $7,080; Union Paving Co., Schenectady, N. Y. (granite block), $7,439, (concrete), $7,865. The Board awarded to MICHAEL F. DOLLARD, of Albany, the contract for improvement of Yates St., from Ontario to Partridge St., at $8,883. Isidore Wachaman is Secy. Bd. Walter Melius is City Engr.

HOOSICK FALLS, N. Y.—Bids will be received until Aug. 6 by the Public Improvement Commission for the construction of approximately 3,600 sq. yds. of brick paving, 18,000 sq. yds. tar macadam paving, 6,000 lin. ft. concrete curb and 2,000 lin. ft. concrete sidewalk.

NEW BRIGHTON, (S. I.), N. Y.—Bids were received as follows on July 27 by George Cromwell, Pres. Boro. Richmond, for furnishing all the labor and materials required for regulating and grading and paving with iron slag block, and granite block pavements on a concrete foundation the roadway of Jay St. and Stuyvesant Pl., from Richmond Terrace to Weiner Pl., being Contract No. 4, of the St. George Ferry approach: William J. Quinlan, Port Richmond, $151,893; Uvalde Asphalt Paving Co., 1 Broadway, New York, $181,289; Scoria Paving Co., 103 Park Ave., New York, $202,195; J. E. Donovan, $197,049; Joseph Johnson's Sons, $166,410.

Bids were also received as follows, same date, for furnishing all labor and materials required for regulating, grading and paving with iron slag block pavement on a concrete foundation, the roadway of Griffin St. and Stuyvesant Pl., from Bay St. to Weiner Pl., being Contract No. 5, of the St. George Ferry approach: Uvalde Asphalt Paving Co., 1 Broadway, New York, $106,109; Scoria Paving Co., 103 Park Ave., New York, $119,284; J. E. Donovan, $118,235; Joseph Johnson's Sons, $117,385.

*CAMDEN, N. J.—Bids were opened on July 12 by the Stone Road Committee, Court House, Camden, Alfred L. Sayers, Dir., for building 2¼ miles of stone road, 14 ft. wide, of either Amiesite or asphalt macadam from Coffin's Corner to Gibbsboro, 4,403 cu. yds. excavation, 18,458 sq. yds. pavement, 1,560 sq. yds. cobble gutters, 500 lin. ft. underdrains. Contract has been awarded to J. F. SHANLEY & CO., Arcade Bldg., Philadelphia, Pa., at $24,061. Road will be of Amiesite construction. J. J. Albertson is County Engr.

Bids will be received until Aug. 11 by the Stone Road Committee, Court House, Camden, Alfred L. Sayers, Dir., for building 1.629 miles of stone road, 14 ft. wide, of either Amiesite or asphalt macadam from White Horse Stone road to Brown's Corner, and 1.237 miles stone road, 14 ft. wide, of either Amiesite or asphalt macadam from Blackwoodtown Turnpike to East Gloucester.

*BAYONNE, N. J.—Bids will be received by the City Council until Aug. 3 for paving with blome granite rock, brick and asphalt. W. C. Hamilton is City Clk. F. W. Dalrymple is City Engr.

*FREEHOLD, N. J.—The Board of Chosen Freeholders on July 14 awarded contract for building the second section of the Farmingdale-Hamilton gravel road, two miles long, to GEORGE W. POTTS, of Asbury Park, N. J., at $10,261.

LEECHBURG, PA.—Contract for brick paving, bids opened on July 6, has been awarded to D. K. HILL, of Leechburg, at $5,836. List of bidders noted on July 15. John A. Hill is Boro. Secy.

GETTYSBURG, PA.—Bids will be received until Aug. 12 by the Gettysburg National Park Commission, Gettysburg, John P. Nicholson, Chn., for grading and piking roads within limits of said park, length 2,550 ft., 18 ft. wide.

*CARBONDALE, PA.—Bids will be received by the city at the office of H. G. Likeley, City Clk., until 8 p. m., Aug. 3, for repaving Salem Ave., and North Main St.

DOYLESTOWN, PA.—The Supervisors of Horsham Township, Montgomery County, have awarded contract for macadamizing about four miles of road in the township to the AMBLER-DANA CO., at about $26,000.

*DOVER, DEL.—The Street Commission on July 14 awarded contract for laying new streets to the UNITED PAVING CO., of Atlantic City, N. J., at $78,130. Bids were received as follows: (a) asphalt paving, (b) curb and gutter, (c) sewers, (d) totals, (e) bitulithic pavement: Barber Asphalt Paving Co., (a) $47,760, (b) $10,938, (c) $19,485, (d) $78,184; United Paving Co., Atlantic City (a) $52,020, (b) $7,125, (c) $18,924, (d) $78,130, (e) $56,160; Standard Bitulithic Co., (a) $54,000, (b) $6,884, (c) $28,658, (d) $89,542, (e) $57,840; Atlantic Bitulithic Co. (e) $59,520.

BALTIMORE, MD.—The State Road Commission on July 12 awarded contracts, it is stated, for paving as follows: Five miles in Anne Arundel County, to FISHER & CORROZZA, at $13,253, and three miles in Calvert County, at $11,671.

HAMPTON, VA.—Bids will be received by the Street Committee of Common Council at the office of G. William Hope, City Clk., until Aug. 2 for brick, block asphalt or granitoid paving, approximately 29,800 sq. yds., 9,500 lin. ft. granite curb and 49,900 lin. ft. concrete curb and gutter, and other street work.

SHELBY, N. C.—Bids will be received until Aug. 16 by the Board of County Commissioners, J. F. Roberts, Chn., for $100,000 of road improvement bonds.

ASHVILLE, ALA.—The St. Clair County Commissioners will construct six miles of road across Backbone Mountain.

EUTAW, ALA.—Bids are asked by the city until July 31 for laying cement sidewalks, curbing and gutters on Prairie St. John W. Cook is Mayor.

*VICKSBURG, MISS.—Bids for paving Cherry St., from Glass Bayou to Finney St., with asphalt, bitulithic, mineral rubber, granitoid, vitrified brick, and creosoted wooden blocks, will be received by the Mayor and Aldermen until 8 p. m., Sept. 6. Bids must be submitted in two forms, with and without grading. J. J. Hayes is Mayor.

LAKE PROVIDENCE, LA.—The city has awarded contract to the JOHN HOUCHIN CO., Jackson, Miss., for constructing three miles of concrete sidewalks.

LEXINGTON, KY.—The city has awarded contract to the PEEBLES BRICK CO., Portsmouth, Ohio, to pave North Limestone St. with brick, pitch filler, at $2.10 per yd.

*LOUISVILLE, KY.—We are officially advised that bids were received as follows by the Board of Public Works on July 19, for paving three blocks of street with creosoted wood block pavement. The work to be done embraces, approximately: 2,430 cu. yds. excavation; 7,320 sq. yds. wood block pavement; 1,300 ft. curbing: B. C. Milner Sons Co., $21,166; G. W. Gosnell, $23,388; Alex. W. Todd, $23,757; M. H. McGovern Co., $25,258; Marion County Construction Co., $25,892; L. R. Figg Co., $26,689; Henry Bickel Co., $29,695.

COITSVILLE, OHIO.—Bids will be received until Aug. 3 by the Board of Trustees of Coitsville Township, at Coitsville, J. S. Palmer, Clk., for grading and macadamizing the Robinson road.

EUCLID, OHIO.—Bids will be received until Aug. 16 by Nelson Brewer, Village Clk., for improving Euclid road. The F. A. Pease Engineering Co. are Engrs., 931 Williamson Bldg., Cleveland.

MILLERSBURG, OHIO.—Bids will be received by Samuel Franks, Jr., Village Clk., until Aug. 12 for about 5,000 sq. yds. brick paving, with stone or concrete curb. Estimated cost, about $8,460. R. G. Defrees, of Millersburg, is Engr.

ASHTABULA, OHIO.—Contract for paving Oak St. with brick, bids opened on July 13, has been awarded by the Board of Public Service to DOWNS & CAMPBELL, of Canton, at $23,434.

PIQUA, OHIO.—J. W. WROE, of Dayton, has secured contract for paving Caldwell St., bids opened on July 14, at 90 cts. per sq. yd. for treated macadam. W. D. Mitchell is Clk. Bd. Pub. Ser.

COLUMBUS, OHIO.—Bids will be received until Aug. 14 by Walter Braun, County Surv., for macadamizing the Pontius road, Madison Township, about 4¼ miles in length.

CINCINNATI, OHIO.—Bids are asked until noon, Aug. 13, by the County Commissioners, Fred Driehs, Clk., for the following work: Specification No. 945, for the improvement of the Ohio Pike, from the Little Miami River to Bogart road, in Anderson Township. Specification No. 948, for resurfacing Cleves and Warsaw Pike, through the village of Addyston, Miami Township.

STEUBENVILLE, OHIO.—Bids will be received until Aug. 6 by the Commissioners Bloomfield and Fairplay Turnpike road, care County Auditor, for $22,000 bonds, to be issued for the purpose of constructing the Bloomfield and Fairplay Free Turnpike road.

TOLEDO, OHIO.—Bids are asked until 10 a. m., Aug. 2, by D. T. Davies, Jr., County Audr., for labor and materials for the improvement, by grading, draining and macadamizing of the county road a distance of three miles.

*ORRVILLE, OHIO.—We are officially advised that SHANNON & WILDERSON, of Orrville, have been awarded contract at $6,900 for paving and curbing with brick near here. Bids were opened by the County Commissioners on July 17 at Wooster, Ohio.

MUSKOGEE, OHIO.—The following contracts were let by the City Council on July 6: To CLEVELAND TRINIDAD CO., approximately 2,540 sq. yds. of sheet asphalt pavement, at $2.03 per sq. yd.; to the DAVISES CONTRACTING CO., for 2,700 cu. yds. class "A" and 2,700 cu. yds. class "B" excavation at 35 cts. and 95 cts., respectively, per cu. yd., and for 510 sq. yds. brick paving at $1.94 per sq. yd.

NEW PHILADELPHIA, OHIO.—We are officially advised that J. H. HICKS, of Dennison, Ohio, has been awarded contract for constructing Dennison and Cadiz road, State Highway D, at $10,720, using Standard oil and asphalt treatment. James C. Wonders is State Highway Comr.

SHELBYVILLE, IND.—The Commissioners of Shelby County will receive bids until 1 p. m., Sept. 6, for the construction of a gravel road in Liberty Township. G. B. Hunter is County Audr.

NEWPORT, IND.—Bids will be received until 10 a. m., Aug. 5, by the Commissioners of Vermillion County for the construction of a gravel road in Taylor Township. G. W. Edwards is Audr.

RUSHVILLE, IND.—Bids are asked by the Commissioners of Rush County until 2 p. m., Aug. 30, for the construction of three miles of macadamized road on the line between Rush and Fayette County. Jesse M. Stone is Audr.

CROWN POINT, IND.—The Commissioners of Lake County will receive bids until noon, Aug. 2, for the construction of a gravel road in North Township known as the Hilliard road. Charles A. Johnson is County Audr.

Bids will be received until 2 p. m., Aug. 5, by the Commissioners of Lake County for the construction of a gravel road in North Township.

SPENCER, IND.—The Commissioners of Owen County will receive bids until noon, Aug. 5, for the construction of 3,605 ft. of macadam road in Taylor Township, known as the Mugg road. George W. Edwards is Audr.

FORT WAYNE, IND.—The Board of Public Works has rejected all bids for paving East Berry and Columbia Sts. as excessive. New bids will be advertised. Bids are also asked for the paving of a number of alleys and constructing three local sewers and for paving Calhoun, Barthold Sts. and Creighton, Runion, Huestis and Wildwood Aves. E. J. Lennon is Chn.

OWOSSO, MICH.—WOLAVER, GEECK & BREWER have been awarded contract, at $43,956, for paving Oliver and Washington Sts., the work including concrete curb, storm sewers and brick pavement, bids were opened on July 12.

HANCOCK, MICH.—The City Council has awarded contract, it is stated, for paving with bitulithic Hancock St. to the CENTRAL BITULITHIC CO., of Manistique, at $27,761.

HIGHLAND PARK, MICH.—It is proposed to pave Woodland Ave. Estimated cost, $105,000. Nothing definite has yet been done. George Jerome, Majestic Bldg., Detroit, is Engr.

BATAVIA, ILL.—We are officially advised that the City Council passed ordinances on July 19 for improvements on Wilson St., which include 1,700 sq. yds. brick pavement with asphalt filler, 3,200 sq. yds. tar macadam pavement, 250 ft. 12 in. storm water sewer with two catch basins, 170 sq. yds. relaid brick gutters, 60 sq. yds. new brick gutters. W. H. Reaney is City Clk. E. K. Wilson, of Elgin, Ill., is Engr.

MILWAUKEE, WIS.—Contracts for grading and paving several alleys with stone, bids for which were received on July 13 by the city, have been let as follows: FRANK BRZEZENACHI, Milwaukee, grading, 34½ cts. per cu. yd., paving, $1.11½ per sq. yd.; JOHN DONAHUE, Milwaukee, grading, 37 cts. per cu. yd., paving $1.2[illegible] per sq. yd.; FRED C. VOGT, Milwaukee, grading, 45 cts. per cu. yd., paving $1.40 per sq. yd.

The Milwaukee Board of Public Works, Charles J. Poetsch, City Engr., awarded contracts for brick paving as follows: 27th St., from St. Paul Ave. to 27th St. viaduct, BADGER CONSTRUCTION CO., Milwaukee, at $1.94 per sq. yd.; Fond du Lac Ave., from Wright St. to 27th St., ROBERT M. McGUICKEN, Milwaukee, at $1.89 per sq. yd.

JANESVILLE, WIS.—Bids are asked until Aug. 20 by the Street Assessment Committee for about 5,270 sq. yds. of macadam. C. V. Kerch is City Engr.

FORT DODGE, IOWA.—O. P. HERRICK, Des Moines, has been awarded contract by the city for constructing 5,478 sq. yds. brick pavement and 2,452 lin. ft. cement curb. Bids were opened on July 12.

ST. PAUL, MINN.—Bids will be received until Aug. 16 by Edward G. Krahmer, Co. Audr., for improving Hamline Ave. and Sjostedt road.

MINNEAPOLIS, MINN.—Bids will be received until Aug. 2 by the Board of County Commissioners for graveling roads Nos. 23 and 83, and rebuilding bridges Nos. 60, 340, 341 and 342. Hugh R. Scott is County Audr.

FARIBAULT, MINN.—Bids will be received by D. F. MacKenzie, City Recdr., until Aug. 2, for a 10-ton road roller, steam or gasoline, and a No. 2 or No. 3 rock crusher.

FORT RILEY, KAN.—H. W. HOERATH, Junction City, Kan., at 17½ cts. per sq. ft., was low bidder on July 15 for constructing 16,666 sq. ft. of concrete walk at this post.

OTTAWA, KAN.—M. E. STUCKER, Ottawa, Kan., has been awarded contract, at $1.44 per sq. yd. for constructing 16,400 sq. yds. of 2-course brick pavement, and at 39 cts. per lin. ft. for 7,170 lin. ft. of concrete curb.

ST. LOUIS, MO.—Bids will be received until Aug. 3 by the Board of Public Improvements, Maxime Reber, Pres., for paving with vitrified brick, bitulithic and asphalt portions of numerous streets.

KANSAS CITY, MO.—We are officially advised that the Board of Public Works has awarded contract to the WARREN ASPHALT PAVING CO., 93 Federal St., Boston, Mass., for the municipal asphalt plant, on which bids were received on July 16. Provisions have been made for handling cars of sand and stone, and large steel storage bins will be provided, from which the material may be handled to the dryers automatically. It is hoped that the plant will be ready for operation the latter part of September.

BAY CITY, TEX.—The city has voted an issuance of $15,000 of bonds for street and sidewalk improvements and extension of water mains. Oscar Barber is City Secy.

ABILENE, TEX.—The city has voted $30,000 of bonds for street improvements.

RAYMOND, WASH.—The County Commissioners have appropriated $25,000 toward the construction of the state aid road to be built from South Bend, through the Palix and Nasel country to the Columbia River.

EVERETT, WASH.—Contract has been let to PETER HENNING for paving Walnut St., from Hewett to Everett Aves., and Everett Ave., from Walnut St. to the bridge, at $28,075 with wood blocks.

PORTLAND, ORE.—Definite arrangements have been made for the construction of the Sour Grass Valley automobile road from Portland to Tilamook. H. Wemme is Pres. Portland Automobile Club. The work will cost between $15,000 and $20,000.

BAKER CITY, ORE.—Bids will be opened in about one month for the paving of Front St.

KENTFIELD, CAL.—The Kentfield Driving Association has decided to put a speedway at Tamalpais Center and surveyors will begin soon to lay out the track.

LOS ANGELES, CAL.—The City Council on July 13 let contracts as follows: To the E. R. WERDIN CO., Los Angeles, for paving Third St., from G to H Sts., at $12,825; to the JOHNSON-SHEA CO., for paving Rialto Ave., from Mt. Vernon Ave. to the west city limits, at $3,228; to B. F. FORD, for paving Base Line, from Arrowhead to Waterman Ave., at $9,050.38; to the HIGHWAY CONSTRUCTION CO., for paving Third St., from C St. to A St., at $5,608.

OGDEN, UTAH.—We are officially advised that bids were received as follows on July 19 by the city for paving District No. 100: P. J. MORAN, Atlas Block, Salt Lake City, Utah, $107,096 (awarded contract); J. P. O'Neill Construction Co., Ogden, $109,680; Wheelwright Construction Co., Ogden, $120,450; Moran & Co., Ogden, $120,961. Engineer's estimate, $105,020. A. F. Parker is City Engr.

GOWANDA, ONT.—W. J. BLAIR and A. L. McLENNAN, Continental Life Bldg., Toronto, Ont., have secured contract at $875 per mile for grubbing, stumping and clearing 27 miles of highway from Smythe to Gowanda for the Provincial Government.

NEW WESTMINSTER, B. C.—Contract has been awarded to the HASSAM PAVING CO. of Vancouver, B. C., for paving Columbia St., together with the laying of sewer, cement sidewalks and drainage system, aggregating $105,250, divided as follows: Paving, $53,000; cement sidewalks, $31,500; sewer system, $20,750. Contract is conditioned on the approval of the rate payers, as a special law authorizing the work must be passed.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

LOWELL, MASS.—The Lands and Buildings Department has issued a permit to the Merrimack Mfg. Co. to build a weaving mill at the foot of Worthern St., at a cost of $50,000.

NASHUA JUNCTION, MASS.—The Wonalancet Co., manufacturers of carded cotton for woolen mills, have bought recently six acres of land within a mile of Nashua Junction, on the Boston & Maine R. R. tracks, on which will be erected a main building, 200 × 100 ft., storehouse 300 × 100 ft. Cost, $150,000. Lester F. Thurber, of Nashua, is Pres.

DANBURY, CONN.—The Tweedy Silk Co., manufacturing silk hat bands, is to build a new brick factory, 110 × 175 ft.

NIAGARA FALLS, N. Y.—We are officially advised that contract has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway, New York, for the construction of a reinforced-concrete building, 240 ft. × 64 ft. four stories high, for the Carborundum Co. at Niagara Falls. O. H. Greenwood is Engr., care of owners. Work to be undertaken at once.

SCHENECTADY, N. Y.—The factory of the Mohawk Overall Co., to be erected on Dock St., will cost $41,879. The general construction will cost $38,600 and the work will be done by BROWN & LOWE. There were 14 other bidders on this work. Seven bids for the plumbing were submitted. The D. H. WILLIAMS CO. was awarded the contract at $3,279.

BUFFALO, N. Y.—The E. R. Thomas Motor Co. will erect a 1-story and basement 90 × 160 ft. addition to its plant at Niagara and Ferry Sts., steel, concrete and glass construction, with steel frame and wired glass roof. Cost, $20,000. Robt. J. Reidpath is Arch., 30 Building Exchange.

The Farmers & Drovers' Stockyards Co., of Buffalo, will erect stockyards structures, enclosures and driveways, including large hotel and office building, all to be of steel and concrete on a 50-acre site just east of the city on the New York Central, Lehigh Valley, Lackawanna and Erie railroads, to cost $500,000. Thomas L. Hisgen, Springfield, Mass., is Pres. John J. Leighton, 141 Broadway, New York, is Secy.

RIVERSIDE, N. J.—An addition is to be built to the Riverside Hosiery Mills operated by Christian Dick.

NORRISTOWN, PA.—The new $200,000 rubber plant, power-house and shipping department of the J. Ellwood Lee Co. will be located on the Righter tract, in Spring Mill.

PHILADELPHIA, PA.—A permit was obtained on July 16 by CRAMP & CO., builders, for a 7-story manufacturing building, 80.2 × 140.2 ft., at the southeast corner of 13th and Callowhill Sts., for Goodman, Loeb & Co. The contract price is $100,000.

YORK, PA.—S. F. GLADFELTER has been awarded the contract to enlarge the York paper and felt plant of the General Roofing Mfg. Co., at a cost of $000,000. The factory will cover six acres and employ 400 persons.

PHILADELPHIA, PA.—The WILLIAM STEELE & SONS CO. has been awarded contract for a 6-story concrete building, 32 × 150 ft., at 321-23 Market St., for Markowitz Bros. The cost of building will be $45,000.

Stearns & Castor have finished plans for the erection of a 3-story factory, 268 × 64 ft., to be built at Glenwood Ave. and Pacific St., for A. J. Cameron & Co.

BALTIMORE, MD.—The Maryland Electric Railways, Baltimore, has awarded to J. HENRY MILLER, 110 Dover St., Baltimore, the contract for the building of a car house and terminal station at Druid Hill and Fulton Aves. Plans for the new structure, which will be 191 ft. × 472 ft., were prepared by Baldwin & Pennington, 330 N. Charles St. The building will cost about $250,000. It will be two stories high, of fireproof construction, with red pressed brick outside walls.

ALBANY, GA.—Lockwood, Greene & Co., 93 Federal St., Boston, Mass., are completing the plans for the plant of the Albany Cotton Mills. Cost, $250,000.

BIRMINGHAM, ALA.—The American Automobile Railway Switch Co., with a capital of $500,000, has decided to build a factory for the manufacture of an automatic street car switch, which is the invention of Harold Shenwell.

ENSLEY, ALA.—The Southern Iron & Steel Co., Birmingham, Ala., has decided to expend $250,000 for remodeling its wire rod mill at Ensley, and will repair and improve all of its other plant as soon as practicable.

HAZELTON, OHIO.—The McCLINTIC-MARSHALL CONSTRUCTION CO. has received the contract to build the new $1,500,000 steel-tube plant for the Republic Iron & Steel Co. at Hazelton, and work will be begun soon.

WOOSTER, OHIO.—On July 16 the Wooster Brush Works, which has been operated heretofore by the W. D. Foss & Sons Co., was incorporated at Columbus, the capital stock of $100,000 being authorized. The incorporators are Walter D. Foss, Oscar H. Foss, Donald J. Foss, Clifford P. Foss and Lewis H. Rhodes.

INDIANAPOLIS, IND.—The Overland Automobile Co. will ask for bids as soon as plans are completed for the construction of an automobile plant at Oliver Ave. and Drover St. There will be three brick buildings constructed, each estimated to cost $20,000.

CONNERSVILLE, IND.—E. W. Amsted and E. L. Russell have ordered plans for the erection of an automobile factory, 60 × 150 ft., two stories high. The building will be of steel, brick and tile. Bids will be in order soon.

RICHMOND, IND.—The Industrial Realty Co., W. F. Boekhoff, Pres., will soon ask for bids for the construction of a factory building in South Richmond.

MUNCIE, IND.—The Muncie Motor Truck Co., recently incorporated, will establish and equip a factory in this city. The company will manufacture automobile trucks. T. L. and Hugh Warner, M. E. Ailes and D. O. Skillen are Dirs.

ALEXANDRIA, IND.—The Imbler Fence Co. will increase its capital from $50,000 to $75,000 and will double the capacity of its plant.

CHICAGO, ILL.—The FRED SPRINKMANN CO., supplies of boiler covering, etc., 129 Second St., Milwaukee, Wis., has been awarded the contract for furnishing all pipe covering for the plant of the Corn Products Mfg. Co., of Chicago, at Argo, Ill. Amount of contract, $45,000.

WAUKESHA, WIS.—The Waukesha Motor Co. has awarded the contract for erection of a $25,000 factory building at St. Paul and Keeley Aves. to the ADVANCE CONSTRUCTION CO., Waukesha. The building will be 88 × 135 ft., of brick and steel construction, one story high, with saw-tooth roof.

SAN ANGELO, TEX.—The Gulf, Colorado & Santa Fe Ry. Co. will erect a 6-stall brick engine house, to have a concrete pit and composition roof, at San Angelo. The estimated cost is $18,000. C. F. W. Felt is Ch. Engr., Galveston, Tex.

DENVER, COLO.—Shops are to be built by the Pullman Co. at Denver, it is said, and the plant now occupied under a lease from the Union Pacific R. R. Co., which expires in December of next year, will be vacated.

SACRAMENTO, CAL.—Th Western Pacific Ry. Co. will begin the erection of a $700,000 plant in Sacramento soon. V. S. Bogue, San Francisco, Cal., is Vice-Pres. and Ch. Engr. of the company. Plans for the railroad shops to be erected on a site chosen by a committee of citizens are in the hands of E. T. Jeffrey, Pres., New York, and as soon as his approval is given the contract will be let and the work started.

PORT ARTHUR, ONT.—According to the Cleveland (Ohio) "News," the $700,000 dry dock and shipbuilding plant of the Western Dry Dock & Shipbuilding Co., at Port Arthur, which the company contemplates building, depends upon a vote of the property owners of the city, which will be held Aug. 10. The officials of the city and of the company have reached an agreement. If the property owners agree work will be started at once. The dry dock will be 700 ft. long. The city will give the company 100 acres of land and a bonus of $25,000 yearly for ten years. The company will pay only $2,000 tax for school purposes for 20 years. The dock will be operated for the American Shipbuilding Co.

MISCELLANEOUS CONTRACTS.

*(*denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

JETTIES.—Salinas, Cal.—See item under Bridges.

STONE.—St. Louis, Mo.—Bids will be received until Aug. 13, by Col. W. H. Bixby, Corps Engrs., U. S. A., for furnishing stone and spalls.

DITCH.—Fort Wayne, Ind.—Bids are asked by David F. Spindler, Supt. of Construction, until Aug. 5, for construction of ditch in Adams and Jefferson townships.

PARK.—New York, N. Y.—Bids are asked until 3 p. m., Aug. 5, by the Department of Parks, for constructing the southerly portion of Colonial Park, Boro. of Manhattan.

GATE POSTS.—New York, N. Y.—Bids are asked until 2.30 p. m., Aug. 9, by the Department of Public Charities for the erection of six new gate posts on Blackwell's Island.

DITCH.—St. Joseph, Mo.—Floyd & Steinacker, Engrs., 413½ Francis St., are preparing preliminary plans for a drainage ditch, south of St. Joseph. Estimated cost, $75,000.

*DREDGING.—New York, N. Y.—Bids will be received until Aug. 28 by Col. W. M. Black, Corps Engrs., U. S. A., Army Bldg., for dredging and rock removal in Bronx River, N. Y.

ARCHES.—Rushville, Ind.—Bids are asked by the Trustees of the East Hill Cemetery Co., until Aug. 3 for two concrete arches (boulder finish). Stewart & Kennedy, Rushville, are Engrs.

DITCH.—Carrollton, Mo.—Bedell & Jacoby, Engrs., 515 Shukert Bldg., Kansas City, Mo., are preparing plans for a drainage ditch for the Wakenda Drainage District. Estimated cost, $260,000.

DREDGING.—Philadelphia, Pa.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 7, for dredging at the Navy Yard, Philadelphia.

RUBBER HOSE.—New York, N. Y.—Bids are asked until 3 p. m., Aug. 5, by the Department of Parks, for furnishing and delivering 5,000 lin. ft. ¾-in. rubber garden hose for parks, Boro. The Bronx.

GRADE.—Marysville, Cal.—Bids are asked by J. F. Eastman, County Clk., until Aug. 2, for raising Morrison grade 5 ft. above high-water mark. Estimated cost, $24,000. Jason R. Meek, County Surveyor.

AUTOMOBILE.—New York, N. Y.—Bids are asked until 11 a. m., Aug. 4, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing and delivering one automobile and equipment to the Bureau of Sewers.

*DRAINAGE CANAL.—Augusta, GA.—Bids are asked by the Canal and River Commission until noon, Aug. 17, for excavating a drainage canal about 3½ miles long, 30 ft. wide and 6 ft. deep. Nisbet Wingfield, Ch. Engr.

IRON RAILINGS.—New York, N. Y.—Bids are asked by the Park Board, until 3 p. m., Aug. 5, for furnishing and erecting iron railings around the grass plots in Broadway, between 92d and 98th Sts., Boro. of Manhattan.

DRAINS, TRACK, PAVING.—Philadelphia, Pa.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 14, for street paving, curbing, railroad track, and drains at Navy Yard, Philadelphia.

*VACUUM CLEANING SYSTEM.—Grand Rapids, Mich.—Bids are asked by the Supervising Architect, Treasury Dept., Washington, D. C., until 3 p. m., Aug. 16, for installing a vacuum cleaning system in U. S. Post-Office and Court-House.

VACUUM CLEANING SYSTEM. — Des Moines, Iowa.—Bids will be received by the Supervising Architect, Treasury Dept., Washington, D. C., until 3 p. m., Aug. 18, for installation of a vacuum cleaning system in the U. S. Post Office at Des Moines.

STEAMER.—New York, N. Y.—Bids are asked by John J. Barry, Comr. of Dept of Correction, until 11 a. m., Aug. 5, for furnishing all the labor and materials required for construction and completion of a 166-ft. wood twin-screw passenger steamer.

LEVEE.—New Orleans, La.—The State Board of Engineers has awarded contract to GIBSON & LINNAN, Natchez, Miss., for the Southwood levee (165,000 cu. yds.) at 15.49 cts. per cu. yd.; and for the Hermitage levee (50,000 cu. yds.) at 13.98 cts.

LEVEE.—Memphis, Tenn.—Bids were received by Maj. M. L. Walker, Corps Engrs., U. S. A., for levee work in lower St. Francis Levee Dist. LEONARD & ROGERS, of Memphis, have secured the contract at 24.1 cts. for 148,000 cu. yds., and 24.6 cts. for 146,000 cu. yds.

IRON POSTS.—Ottawa, Ont.—Bids will be received by the Department of Interior until noon, Aug. 15, for furnishing iron posts as follows: At Winnipeg, 18,000 small-size posts and 200 large-size posts; at Saskatoon, 12,000 small-size and 200 large-size; at Edmonton, 10,000 small-size.

DRAINAGE.—Muscatine, Iowa.—Bids were received on July 15 by A. S. Lawrence, County Audr., for constructing Drainage District No. 10, consisting of the removal of about 20,000 cu. yds. of earth. Contract was awarded to W. T. CREGG & CO., Muscatine, at 26 cts. per cu. yd.

DIKES.—Liberty, Mo.—Bedell & Jacoby, Engrs., 515 Shulkert Bldg., Kansas City, Mo., are preparing preliminary plans for dikes and flood protection, in Clay County, for the Land Owners' Association. M. B. Wright is Chn., 919 Baltimore Ave., Kansas City. Estimated cost, $15,000.

DREDGING.—Milwaukee, Wis.—The Milwaukee Board of Public Works has awarded contract for dredging Milwaukee rivers and canals during period ending Dec. 1, 1909, to ADOLPH F. BUES, of Starke Dredge & Dock Co., Milwaukee, at 12½ cts. per cu. yd. Estimated cost, $25,000.

CHANNEL.—Boston, Mass.—Bids are asked by the Charles River Basin Commission until 2.30 p. m., Aug. 9, for excavating a channel in the Charles River; work includes about 16,000 cu. yds. earth excavation, and a small amount of rock excavation. Hiram A. Miller, Ch. Engr., 367 Boylston St.

CANAL.—Collinston, La.—The contract for digging the Coulee Drainage Canal has been awarded to McDONALD BROS., of Cloverdale, Ind. The canal will be eight miles long at an average depth of 6 ft. and an average width of 30 ft., and will require the removal of 210,000 cu. yds. of earth, at 12 cts. per cu. yd.

TABULATING MACHINES.—Washington, D. C.—Bids will be received at the office of E. Dana Durand, Dir. of the Census Dept. of Commerce and Labor, until Aug. 9, for tabulating machines. Mr. Durand will consider various types of machines for tabulating the agricultural statistics of the 13th census, on or before July 31.

FLUSHING EQUIPMENT.—Boston, Mass.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 14, for the equipment necessary for the salt water flushing of dry dock No. 2 at the U. S. Navy Yard, Boston, Mass. Specifications are on file at office of Engineering News, New York.

*RIPRAP.—Boston, Mass.—Bids were received by the Board of Harbor and Land Commissioners, State House, on July 14 for riprap work at Bass River in towns of Dennis and Yarmouth. Contract was awarded to CONNOLLY BROS., Barnstable, Mass., at $2.30 per ton. Estimated quantity, 3,000 to 5,000 tons. Frank W. Hodgdon, Ch. Engr.

DITCHES.—Webster City, Iowa.—The Board of Supervisors has awarded contract for the drainage ditch in Mud Lake district to the NORTHERN CONSTRUCTION CO., of Elkhart, Ind., at 6.65 cts. per cu. yd., about 651,000 cu. yds. and the Fardal ditch, in District 72, to WILCOX & BRYAN, of Ayshire, Iowa, at 7.85 cts., about 107,000 cu. yds.

RIPRAP, ETC.—Boston, Mass.—Bids will be received by the Board of Harbor and Land Commissioners, room 131 State House, until Aug. 6, for building a stone rip-rap protection for the bluff near Hotel Mattaquason, in the town of Chatham; also for building a stone breakwater and jetty in Vineyard Haven Harbor. Frank W. Hodgdon, Ch. Engr.

ROAD-ROLLER.—Carson City, Nev.—Bids will be received until 10 a. m., Aug. 6, by E. O. Patterson, County Clerk, for delivery, f. o. b. Carson City, Neb., one ten-ton road-roller, combining durability with the best and most improved forms of mechanism. The Board of County Commissioners invites a competitive exhibition or demonstration of the various road-rollers manufactured.

WHARF, ETC.—Ft. Terry, N. Y.—Bids will be received by Capt. Charles T. Baker, Q. M., U. S. A., at New London, Conn., until 10 a. m., Aug. 14, for the following work at Ft. Terry: Dredging approximately 127,000 cu. yds. wharf construction; 9,000 lin. ft. macadam roads; 5,463 ft. of 6 and 10-in. sewer and 551 ft. of 4-in. water extension; also 1,000 lin. ft. of macadam road at Ft. Michie.

TURNING BASIN.—Buffalo, N. Y.—A turning basin, 800 ft. long and 700 ft. wide, is to be constructed at the junction of Buffalo River and the Blackwell Canal; large enough for the largest freighters on the lakes to turn in. The Boards of Aldermen and Councilmen of Buffalo have passed resolution providing $150,000 for purchase of the necessary property. The cost of dredging earth and rock to depth of 23 feet is estimated at $110,000. A city dock is be established along the southern end of the basin.

CEMENT, BRICK, ETC.—Columbus, Ohio.—Bids will be received until noon, Aug. 12, by the Board of Managers of the Ohio Penitentiary for furnishing and delivering f. o. b. cars, penitentiary siding, the following: About 2,500 bbls. Portland cement, 300,000 to 400,000 common brick, 2,000 yds. of sand, 1,000 bushels of lime, 150,000 to 200,000 face brick, 50,000 to 100,000 glazed brick, 1,000 yds. crushed stone, etc. Marriott & Allen, Archs., 20 E. Broad St., Columbus. The Osborn Engineering Co., Engrs., Osborn Bldg., Cleveland.

LEVEE.—Vicksburg, Miss.—Bids were received on July 1 by Capt. Clarke S. Smith, Corps Engrs., U. S. A., Mississippi River Comn., 3d Dist., Vicksburg, for 940,000 cu. yds levee work in this district. Bids will also be received at same time for furnishing brush and poles for revetment work in the above district. Lowest bidders were SHIELDS BROS. & NYSTROM, Greenville, Miss., from 18.49 cts. to 22.9 cts. per cu. yd.; CLARK & PARKER, Vicksburg, Miss., 19.9 cts.; ROACH STANSELL, Memphis, 21 cts. They were awarded the contracts.

WHARF SHEDS.—New Orleans, La.—Bids were opened on July 9 by the Board of Commissioners of the Port of New Orleans for material and building of wharf sheds at Celeste St. landing. Contracts have been let as follows: To the SALMEN BRICK & LUMBER CO., for sheathing and nailing strips, 746 M. ft., $14.932; to W. W. CARRE & CO., glazed sashes and other factory work, at $2,608; to JOHN REISS, placing and painting of sheathing, at $13,935, and to Atkinson, Blake & Co., for furnishing and placing composition roof, $9,398. A. C. Bell, Engr., 606 Hibernia Bank & Trust Co. Bldg.

TUNNEL.—Portland, Ore.—Contract has been awarded to ROBT. WAKEFIELD and the PACIFIC BRIDGE CO., of Portland, for building a tunnel and approaches to connect the Oregon Ry. & Navigation Co.'s line with the Spokane, Portland & Seattle R. R. across the peninsula. The tunnel will be 5,425 ft. long; 14,000 ft. of track will have to be laid from the connection in Mock's bottom with the Troutdale cut-off of the O. R. & N. to the North bank main line south of Oregon Slough, near which the tunnel ends. Starting from a few blocks east of Maegly Junction, the bore throughout most of its length will run beneath Dana Ave. Its southern terminus will be under Columbia Park. Estimated cost, $1,000,000.

BARGE CANAL.—Albany, N. Y.—At a recent meeting of the State Canal Board, the plans and specifications presented by Frank M. Williams, State Engr. and Surveyor, for Barge Canal Contracts Nos. 43 and 44 were approved. The work covered by the plans is as follows: Contract No. 43, for constructing the canal from a point just east of Oriskany rd to about 1,500 ft. west of Mud Creek, a distance of about ten miles, the work including the construction of guard gates, dams, spillways, a junction lock, highway bridges, etc. The engineer's estimate is $1,528,800. Contract No. 44, for constructing the canal from a point about 1,500 ft. west of Mud Creek to Contract No. 4, a distance of seven miles, including the construction of a junction lock, locks 21 and 22 with their approach walls, culverts, highway bridges, and stream entrances. Estimated cost, $1,908,600. It is expected that bids will be asked on this work within a few weeks.

TRADE PUBLICATIONS.

MANGANESE BRONZE.—Lumen Bearing Co., Buffalo, N. Y. Paper; 3¼ x 6 ins.; pp. 5; illustrated.

The uses to which manganese bronze castings may be put are suggested in this leaflet.

SIDEWALK LIGHTS.—Bergen Manufacturing Co., Canton, O. Paper; 6 x 9 ins.; pp. 56; illustrated.

The use of glass blocks and prisms in the sidewalk slabs forming the roofs of vaults, areas, etc., is set forth here in detail.

GAS-LAMP MANTLES.—General Gas Mantle Co., Cor. Fourth and Jefferson St., Camden, N. J. Paper; 7½ x 10½ ins.; pp. 24; illustrated.

A line of mantles for incandescent gas business and known as the "Humphrey" is pictured here.

SMALL CORE DRILLS.—Cyclone Drill Co., Orrville, O., Bulletin 2. Paper; 6 x 9 ins.; pp. 24; illustrated.

Small drills capable of making upward of 225 ft. of 1⅝-in. core and both hand and power driven are described and pictured in this book.

AIR AND GAS COMPRESSORS.—Ingersoll-Rand Co., 11 Broadway, New York City. No. 3001. Paper; 6 x 9 ins.; pp. 16; illustrated.

The history of this concern's manufacturing, details of mechanism, and brief descriptions of compressor types are found here.

BUCKETS FOR CONCRETE WORK.—The Ohio Ceramic Engineering Co., Cleveland, O. Paper; pp. 4½ x 6 ins.; pp. 20; illustrated.

These include tipping and drop-bottom buckets, with a special bucket having controllable bottom discharge for depositing concrete in narrow forms or spreading it over a large surface.

HAMMER DRILLS.—Ingersoll Rand Co., 11 Broadway, New York City. No. 4010. Paper; 6 x 9 ins.; pp. 28; illustrated.

This company now offers a complete line of light drills in which the bit is not attached to the reciprocating piston, but is struck by the piston or a hammer. Their use in various kinds of work is shown in this bulletin.

"SARCO."—Sarco Fuel Saving & Engineering Co., 90 West St., New York City. Bulletin No. 1. Paper; 8 x 10½ ins.; pp. 7; illustrated.

Under the above title, this company purposes to publish at intervals of two months a bulletin of latest developments and applications of Sarco apparatus. Bulletin No. 1 deals with the Sarco automatic CO_2 recorder.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 34.

PAVING.

Mayor's Office,
Vicksburg, Miss., July 23, 1909.

Sealed proposals for paving Cherry Street, from Glass Bayou to Finney Street, with Asphalt, Bitulithic, Mineral Rubber, Granitoid, Vitrified Brick, and Creosoted Wooden Blocks, will be received by the Mayor and Aldermen, September 6th, 1909, at 8 o'clock p. m. Bids must be submitted in two forms, with and without grading.

Plans and specifications to be had on application to C. R. Twiss, City Engineer.

Board reserves the right to reject any or all bids.

J. J. HAYES, Mayor.

ELECTRIC LIGHT PLANT AND WATER-WORKS SYSTEM.

Earlham, Ia.

Sealed proposals will be received by the Town Council of the town of Earlham at the office of the town clerk until 12 o'clock, noon, on the 2d day of August, 1909, for the following improvements as per plans and specification now on file in the office of the town clerk.

One power house, equipment and installing of same for electric light plant.

Equipment and installing of same for water-works system.

Each bid must be accompanied with a certified check, said check to be drawn on some responsible bank and made payable to the town treasurer in the sum of $500.

The right is reserved to reject any and all bids. Proposals received will be acted upon by the Town Council on the 2d day of August, 1909.

J. R. THOMSON, Mayor.
W. S. SHEPHERD, Clerk.

SEWER.

Office of Commissioners of Sewerage of Louisville, Ky.
Incorporated.

Sealed proposals for the construction of a sewer known as the Ewing Ave. Sewer, Contract No. 50, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, August 13th, 1909.

The work will consist mainly of building a combination sewer and drain 8" to 30" diameter, total length about 3,270 ft. and from 8 to 14 ft. deep, and including about 2,000 cu. yds. of rock excavation, 300 cu. yds. of concrete and 5,000 ft. of vitrified pipe from 8" to 24" diameter.

Plans and specifications may be seen at the office of the Commissioners, and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Ewing Ave. Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond," as described in the form of proposal.

W. C. NONES,
Chairman.

CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BROOD, Chief Engineer. 5-1t

SEWERS.

Hackensack, N. J.

Sealed proposals will be received by the Hackensack Improvement Commission at the Commission Rooms, 193 Union Street, Hackensack, on Monday, August 16th, 1909, at 8 o'clock P. M., for the construction of a concrete and pipe sewer in Railroad Avenue, Newman Street, etc., consisting of about

540 feet flat top Concrete Sewer, 3 feet wide.
2,495 feet flat top Concrete sewer, 5 feet wide.
390 feet flat top Concrete Sewer, 4 ft. 6 in. wide.
384 feet flat top Concrete Sewer, 4 ft. wide.
370 feet flat top Concrete Sewer, 3 ft. 9 ins. wide.
310 feet 21-inch Vitrified pipe sewer.
290 feet 18-inch Vitrified piper sewer.

together with junctions, manholes, catchbasins and other appurtenances.

Also, for a vitrified pipe sewer in Lodi Street, consisting of about

1,529 feet 24-inch. Pipe Sewer.
327 feet 18-inch Pipe Sewer,

together with manholes, catchbasins, etc.

Also, for a vitrified pipe sewer in Spring Valley Avenue, consisting of about

345 feet 20-inch pipe sewer,
345 feet 18-inch pipe sewer,
360 feet 12-inch pipe sewer,

together with manholes, catchbasins, etc.

Also, for a vitrified pipe sewer in Grove Street, consisting of about

221 feet 18-inch pipe sewer,
200 feet 12-inch piper sewer,

together with manholes, catchbasins, etc.

Plans and specifications can be seen and blank forms of proposals obtained at the office of the Hackensack Improvement Commission, 193 Union Street, and at the office of Lemuel Lozier, Engineer, Bank Building, Main and Mercer Street, Hackensack.

All proposals must be made upon the blank form furnished.

A certified check for the sum of One Thousand Dollars ($1,000.00) drawn to the order of the Hackensack Improvement Commission must accompany each proposal offered for the construction of the Concrete sewer as surety that contract will be entered into if proposal is accepted.

Also, a certified check for the sum of Five Hundred Dollars ($500.00) must accompany each proposal for the construction of the sewer in Lodi Street;

Also, a certified check for the sum of Three Hundred Dollars ($300.00) must accompany each proposal for the construction of the Spring Valley Avenue sewer;

Also, a certified check for the sum of Two Hundred Dollars ($200.00) must accompany each proposal for the construction of the sewer in Grove Street.

A Surety Company bond equal to 50% of the amount of the contract will be required in each contract.

The Hackensack Improvement Commission reserves the right to reject any or all bids.

C. LINKROUM,
President.
C. FLUBACHER,
Secretary.

SEWERS AND SEWAGE DISPOSAL WORKS.

Borough of Belmar, New Jersey.

Sealed proposals will be received by the Mayor and Council of the Borough of Belmar, N. J., at the Council Chamber of the said Borough, at 7:30 P. M., August 24th, 1909.

Said proposals must cover the furnishing of materials and the performance of labor required for the construction and equipment of certain sewers and sewage disposal works and the connection therewith of existing sewers and sea outlet pipe, all in accordance with plans and specifications now on file with the Borough Clerk.

Copies of the specifications and plans may be seen also at the office of the engineers, City-Wastes Disposal Company, 156 Fifth Avenue, New York City.

Approximately the proposed work consists of:—

About 3,600 cubic yards of excavation in sand, gravel and possibly clay (no rock) partly below ground-water level.

About 970 feet of vitrified pipe sewers, to 20 inches in diameter, with manholes and other appurtenances.

About 900 cubic yards of concrete, part of it reinforced in foundations, walls, floors and roofs of sewage tanks, pump wells, etc.

The construction and equipment of a small concrete pump-house.

Repaving of streets over sewers and tanks, grading around pump-house, etc., etc.

Each bid must be accompanied by a certified check for Two Thousand ($2,000) Dollars as a guarantee that the bidder, if his bid be accepted, will execute the contract and furnish the required bond.

Each bid must be made on blank forms to be obtained from the Borough Clerk or the Engineers.

The Borough reserves the right to reject any or all bids.

All bids must be enclosed in sealed envelopes, marked "Proposal for the Construction of Sewers and Sewage Disposal Works," and each must be enclosed in a second envelope addressed to

CHARLES O. HUDNUT,
Borough Clerk,
Belmar, N. J.

BUILDING DISPOSAL WORKS.

Auburn, N. Y., July 27, 1909.

Sealed proposals will be received by the Mayor, Hon. C. A. Koenig, until 8 o'clock P. M., August 17, 1909, for the construction of a disposal works. Said proposals will be opened and considered by the Common Council at a meeting to be held on the evening of said date. Said disposal works consists of grit chambers, the building above them, reduction tanks, dosing chambers, four filter beds, gate house, automatic feeds and discharges for the filters, necessary chambers, connections, and attachments. In letting the contract the work will be divided as follows: Item (1) includes automatic feeding and discharging appliances for the filters; item (2) includes all work and material not mentioned to be done or furnished under item No. 1.

A bond for an amount equal to one-half the gross amount of the contract or a certified check for $3,500 will be required of all bidders. The Common Council reserves the right to reject any or all bids. Specifications, general plans and blank forms for prosopals may be seen at the office of the City Engineer, W. Thomas Wooley, and are now ready for distribution upon receipt of a certified check payable to the order of the City of Auburn in the sum of $15, said check to be returned to the applicant upon the return of the plans, specifications, etc., to the City Engineer. Additional information can be obtained of said City Engineer.

J. S. HANLON,
City Clerk.

WATER SUPPLY, STEAM MAINS.

Binghamton, N. Y.

Sealed proposals for Extension of Water Supply System, also new Steam and Return Mains, and Rebuilding of Trestle, at Binghamton State Hospital, Binghamton, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., at three o'clock P. M., August 18th, 1909, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of $150, for the Water Supply System, and $1,200 for the Steam Mains, and the contractors to whom the awards are made will be required to furnish surety company's bonds in the sum of $1,500, for the Water Supply and $12,000 for the Steam Mains. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Binghamton State Hospital, Binghamton, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y.

T. E. McGARR, Secretary,
State Commission in Lunacy

Dated July 23, 1909.

ELECTRIC LIGHTING PLANT.

Monett, Missouri.

Sealed proposals will be received by the City Clerk of Monett, Missouri, up to eight o'clock P. M., of the first day of September, 1909, for furnishing material and machinery necessary for the complete installation of an Electric Lighting Plant for Monett, Missouri. Material required is as follows:

Corliss Engine direct connected to A. C. Generator, with High Speed Automatic Engine direct connected to A. C. Generator each complete with Independent exciters and controlling apparatus, switchboard, arc regulators, arc lamps, poles, wire, Tungsten lamps complete, 3 tubular boilers, stack, feed pump, feed water heater, all according to the specifications for such on file with the City Clerk of Monett, Missouri, and at the undersigned Engineers, Kansas City, Missouri, and at this office.

Anyone desiring extra copies of specifications may obtain same upon application to the undersigned Engineers upon payment of One ($1.00) Dollars to cover the cost of the same.

The City hereby reserves the right to accept any or all bids either in whole or in part.

PERRY SHORT, Mayor.
D. S. BREECE, City Clerk.
L. G. KNAPP & COMPANY, Engineers,
New York Life Bldg.,
Kansas City, Mo.

Specifications for this work are on file at the office of Engineering News, New York.

Situations Wanted

Superintendents, Misc., etc.

SUPERINTENDENT; heavy construction work; 10 years' experience; would like to connect with contractor doing large excavating and concrete work. Location no object. Address "D. A. 5," Engineering News, New York. 5-1t

FOREMAN; plain and reinforced concrete work; four years' experience N. Y. city; has technical training. A1 references. Address "E. A. 5," Engineering News, New York. 5-1t

Situations Open

WANTED—Two checkers and several experienced structural and ornamental draftsmen on building work. HINKLE IRON CO., 534 West 56th St., N. Y. 5-1t

YOUNG MAN with some experience as an estimator in general building contract work. Address THE BENDER CO., Hamilton, Ohio. 5-1t

Miscellaneous Wants

WANTED

Lidgerwood

7 x 10 or 8¼ x 10 double cylinder and double drum hoisting engine and boiler combined on one bed plate. First class order.

PELHAM
416 West 26th St., New York City 5-1t

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